

## Lampiran 1

### KISI-KISI KUESIONER KONDISI EKONOMI KELUARGA YANG DIUJICOBAKAN

| No.          | Dimensi                                      | Indikator  | Jumlah    | No Item           |
|--------------|--|--|-----------|-------------------|
| 1.           | Tingkat Pendidikan                           | Pentingnya pendidikan terakhir orang tua                           | 2         | 1,2               |
|              |  | Pentingnya didikan pengetahuan, pemahaman, dan moral dari orangtua | 2         | 3,4               |
| 2.           | Pekerjaan Dan Penghasilan                    | Pentingnya jenis pekerjaan orang tua                               | 2         | 5,6               |
|              |  | Tingkat penghasilan ayah, ibu dan keluarga yang lain               | 3         | 7,8,9             |
|              |  | Perlunya pekerjaan sampingan atau penghasilan tambahan             | 4         | 10,11,12,13       |
| 3.           | Pengeluaran dan Pemenuhan Kebutuhan Keluarga | Kesenjangan antara penghasilan dan pengeluaran keluarga            | 5         | 14,15,16,17,18    |
|              |  | Terpenuhinya kebutuhan keluarga dari hasil pendapatan              | 6         | 19,20,21,22,23,24 |
|              |  | Terpenuhinya fasilitas belajar anak                                | 6         | 25,26,27,28,29,30 |
| <b>Total</b> |  |  | <b>30</b> |                   |

Berikut merupakan pedoman penskoran untuk kuesioner kondisi ekonomi keluarga yang akan diujicobakan dalam penelitian ini.

**RUBRIK PENSKORAN KUESIONER KONDISI EKONOMI****KELUARGA**

| <b>Pilihan Jawaban</b>    | <b>Skor</b>               |                           |
|---------------------------|---------------------------|---------------------------|
|                           | <b>Pernyataan Positif</b> | <b>Pernyataan Negatif</b> |
| Sangat Setuju (SS)        | 5                         | 1                         |
| Setuju (S)                | 4                         | 2                         |
| Ragu (R)                  | 3                         | 3                         |
| Tidak Setuju (TS)         | 2                         | 4                         |
| Sangat Tidak Setuju (STS) | 1                         | 5                         |



## Lampiran 2

### KUESIONER KONDISI EKONOMI KELUARGA YANG DIUJICOBAKAN

#### A. Identitas Responden

1. Nama :
2. Kelas :
3. Sekolah :

#### B. Petunjuk Pengisian:

- 1 Isilah identitas pada lembar kuisisioner
- 2 Bacalah pernyataan dengan cermat, kemudian jawablah sesuai dengan keadaan anda yang sebenarnya dengan cara memberi tanda ceklis (✓) pada salah satu kolom jawaban.
- 3 Selesai mengerjakan, telitilah kembali dan pastikan bahwa setiap pertanyaan di kuisisioner ini terjawab semua.
- 4 Angket ini tidak mempengaruhi nilai mata pelajaran
- 5 Keterangan : SS (Sangat setuju). S (Setuju), R (Ragu), TS (Tidak Setuju), STS (Sangat Tidak Setuju)
- 6 Selamat mengerjakan dan terimakasih atas partisipasinya dalam mengisi angket ini.

| NO. | PERTANYAAN   | SS | S | R | TS | STS |
|-----|--|----|---|---|----|-----|
| 1.  | Orang tua saya memiliki jenjang Pendidikan yang tinggi (SMA, Perguruan Tinggi) |    |   |   |    |     |
| 2.  | Orang tua saya mengalami putus sekolah   |    |   |   |    |     |
| 3.  | Orang tua saya memberikan Pendidikan yang baik sejak kecil                     |    |   |   |    |     |
| 4.  | Orang tua saya menanamkan pentingnya pendidikan sejak usia dini                |    |   |   |    |     |
| 5.  | Ayah saya memiliki jabatan yang tinggi guna memenuhi kebutuhan                 |    |   |   |    |     |

| NO. | PERTANYAAN   | SS | S | R | TS | STS |
|-----|--|----|---|---|----|-----|
|     | pendidikan saya (kepala,Golongan IV,Perwira)   |    |   |   |    |     |
| 6.  | Ibu saya memiliki jabatan yang tinggi guna memenuhi kebutuhan pendidikan saya (kepala,Golongan IV,Perwira)     |    |   |   |    |     |
| 7.  | Orang tua saya memiliki penghasilan diatas UMR (Upah Minimum Regional) dari pekerjaannya                       |    |   |   |    |     |
| 8.  | Orang tua saya memiliki penghasilan UMR sehingga mampu memberikan fasilitas belajar.                           |    |   |   |    |     |
| 9.  | Kelebihan penghasilan orang tua saya biasanya diwujudkan dalam bentuk hadiah ketika saya mendapatkan prestasi. |    |   |   |    |     |
| 10. | Ibu saya bekerja sehingga dapat membantu perekonomian keluarga   |    |   |   |    |     |
| 11. | Orang tua saya memiliki pekerjaan sampingan agar cukup memenuhi kebutuhan keluarga                             |    |   |   |    |     |
| 12. | Saya turut membantu pekerjaan orang tua untuk menambah penghasilan keluarga                                    |    |   |   |    |     |
| 13. | Orang tua saya mendapatkan pemasukan tambahan dari tabungan Deposito/Saham/Investasi setiap bulan.             |    |   |   |    |     |
| 14. | Penghasilan orang tua saya mencukupi kebutuhan keluarga  |    |   |   |    |     |
| 15. | Orang tua saya mempunyai tanggungan cicilan kendaraan bermotor (Sepeda motor atau Mobil)                       |    |   |   |    |     |
| 16. | Gaji orangtua saya mencukupi untuk membiayai sekolah   |    |   |   |    |     |
| 17. | Orang tua saya memiliki tabungan pendidikan untuk masa depan saya  |    |   |   |    |     |



| NO. | PERTANYAAN   | SS | S | R | TS | STS |
|-----|--|----|---|---|----|-----|
| 18. | Penghasilan orang tua saya bisa mencukupi kebutuhan tersier (kebutuhan yang mencakup barang-barang mewah atau branded) |    |   |   |    |     |
| 19. | Orang tua saya berpenghasilan UMR tetapi mampu membayar SPP  |    |   |   |    |     |
| 20. | Saya tinggal bersama keluarga di rumah sendiri   |    |   |   |    |     |
| 21. | Saya diberikan fasilitas belajar yang cukup oleh orang tua   |    |   |   |    |     |
| 22. | Orang tua saya memiliki pekerjaan tetap sehingga mampu memenuhi kebutuhan fasilitas belajar saya                       |    |   |   |    |     |
| 23. | Orangtua saya tidak memiliki cicilan   |    |   |   |    |     |
| 24. | Orang tua saya mampu menabung tiap bulan dari penghasilan yang diterima  |    |   |   |    |     |
| 25. | Orang tua saya membelikan komputer atau laptop guna menunjang proses belajar saya.                                     |    |   |   |    |     |
| 26. | Saya pergi ke sekolah mengendarai kendaraan pribadi  |    |   |   |    |     |
| 27. | Orang tua saya mampu membelikan buku-buku mata pelajaran sekolah   |    |   |   |    |     |
| 28. | Orang tua saya mampu memberikan fasilitas belajar yang memadai   |    |   |   |    |     |
| 29. | Orang tua saya memberikan smartphone guna menunjang kegiatan belajar   |    |   |   |    |     |
| 30. | Saya diberi fasilitas les tambahan guna membantu pemahaman saya terhadap pelajaran di sekolah                          |    |   |   |    |     |

### Lampiran 3

**DATA HASIL UJI COBA KUESIONER KONDISI EKONOMI  
KELUARGA**

| Responden | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R1        | 1           | 5 | 5 | 4 | 4 | 5 | 4 | 5 | 4 | 1  | 1  | 4  | 5  | 5  | 5  |
| R2        | 1           | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 4  | 4  | 3  | 4  | 5  | 1  |
| R3        | 4           | 5 | 3 | 2 | 5 | 5 | 2 | 5 | 5 | 3  | 5  | 2  | 4  | 5  | 5  |
| R4        | 2           | 5 | 2 | 2 | 4 | 4 | 2 | 4 | 1 | 4  | 4  | 2  | 2  | 1  | 4  |
| R5        | 5           | 4 | 3 | 2 | 4 | 5 | 3 | 5 | 5 | 3  | 3  | 3  | 2  | 5  | 5  |
| R6        | 4           | 4 | 4 | 2 | 4 | 5 | 2 | 4 | 5 | 2  | 2  | 4  | 4  | 5  | 5  |
| R7        | 4           | 4 | 2 | 2 | 4 | 5 | 2 | 4 | 5 | 4  | 2  | 4  | 3  | 5  | 5  |
| R8        | 3           | 4 | 3 | 3 | 4 | 5 | 3 | 4 | 1 | 3  | 4  | 3  | 3  | 1  | 5  |
| R9        | 5           | 5 | 3 | 2 | 4 | 5 | 2 | 5 | 4 | 2  | 2  | 3  | 4  | 5  | 2  |
| R10       | 5           | 5 | 4 | 1 | 4 | 4 | 3 | 5 | 1 | 3  | 5  | 5  | 5  | 5  | 5  |
| R11       | 5           | 5 | 4 | 4 | 4 | 5 | 2 | 4 | 5 | 2  | 2  | 2  | 4  | 4  | 2  |
| R12       | 4           | 5 | 5 | 4 | 4 | 5 | 4 | 5 | 5 | 5  | 1  | 2  | 5  | 5  | 5  |
| R13       | 3           | 5 | 4 | 2 | 4 | 2 | 2 | 5 | 5 | 5  | 3  | 3  | 5  | 2  | 5  |
| R14       | 5           | 5 | 5 | 4 | 5 | 2 | 1 | 5 | 5 | 2  | 2  | 2  | 5  | 2  | 5  |
| R15       | 3           | 4 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3  | 3  | 3  | 3  | 3  | 5  |
| R16       | 4           | 5 | 5 | 2 | 4 | 4 | 2 | 5 | 5 | 4  | 4  | 1  | 5  | 2  | 5  |
| R17       | 3           | 5 | 2 | 2 | 4 | 1 | 2 | 5 | 1 | 3  | 2  | 3  | 4  | 1  | 5  |
| R18       | 2           | 5 | 4 | 2 | 4 | 5 | 1 | 4 | 1 | 4  | 1  | 2  | 2  | 4  | 5  |
| R19       | 4           | 5 | 4 | 2 | 4 | 4 | 5 | 5 | 5 | 4  | 5  | 4  | 2  | 2  | 1  |
| R20       | 4           | 5 | 4 | 2 | 4 | 4 | 5 | 5 | 5 | 5  | 4  | 2  | 2  | 1  | 2  |
| R21       | 5           | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 3 | 3  | 3  | 3  | 3  | 5  | 1  |
| R22       | 4           | 4 | 3 | 2 | 3 | 4 | 4 | 5 | 4 | 3  | 1  | 2  | 2  | 4  | 5  |
| R23       | 4           | 4 | 4 | 2 | 3 | 5 | 3 | 4 | 4 | 4  | 5  | 4  | 3  | 4  | 1  |
| R24       | 1           | 2 | 4 | 2 | 2 | 4 | 3 | 5 | 5 | 2  | 1  | 1  | 4  | 4  | 1  |
| R25       | 5           | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 5 | 4  | 1  | 1  | 2  | 3  | 1  |
| R26       | 1           | 3 | 4 | 3 | 1 | 3 | 1 | 3 | 5 | 3  | 1  | 1  | 4  | 4  | 1  |
| R27       | 2           | 3 | 3 | 2 | 4 | 4 | 5 | 5 | 5 | 4  | 1  | 4  | 5  | 5  | 1  |
| R28       | 5           | 5 | 5 | 4 | 2 | 2 | 1 | 3 | 2 | 1  | 5  | 3  | 4  | 3  | 1  |

| Responden | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R29       | 1           | 3 | 4 | 5 | 3 | 5 | 3 | 3 | 5 | 3  | 2  | 2  | 1  | 2  | 1  |
| R30       | 3           | 1 | 5 | 3 | 4 | 4 | 1 | 4 | 2 | 2  | 1  | 3  | 4  | 5  | 5  |
| R31       | 2           | 1 | 3 | 2 | 1 | 4 | 5 | 5 | 4 | 3  | 2  | 2  | 2  | 4  | 5  |
| R32       | 3           | 5 | 3 | 2 | 1 | 5 | 5 | 1 | 4 | 1  | 3  | 2  | 2  | 5  | 1  |
| R33       | 2           | 4 | 5 | 2 | 2 | 5 | 3 | 3 | 2 | 3  | 3  | 5  | 5  | 4  | 1  |
| R34       | 5           | 5 | 5 | 5 | 5 | 2 | 5 | 5 | 2 | 4  | 4  | 2  | 4  | 3  | 5  |
| R35       | 2           | 5 | 2 | 2 | 4 | 5 | 4 | 5 | 5 | 4  | 4  | 2  | 2  | 4  | 5  |
| R36       | 2           | 5 | 2 | 2 | 3 | 3 | 3 | 5 | 4 | 3  | 2  | 2  | 4  | 4  | 2  |
| R37       | 5           | 5 | 4 | 4 | 3 | 4 | 5 | 4 | 3 | 5  | 4  | 3  | 1  | 2  | 5  |
| R38       | 3           | 4 | 4 | 2 | 4 | 3 | 3 | 5 | 5 | 4  | 4  | 2  | 4  | 5  | 1  |
| R39       | 5           | 2 | 4 | 1 | 2 | 4 | 5 | 3 | 2 | 1  | 3  | 1  | 4  | 1  | 4  |
| R40       | 4           | 4 | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 5  | 3  | 2  | 3  | 2  | 1  |
| R41       | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3  | 3  | 3  | 2  | 3  | 5  |
| R42       | 3           | 5 | 3 | 3 | 3 | 4 | 4 | 5 | 3 | 4  | 5  | 2  | 5  | 5  | 5  |
| R43       | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 4  | 5  | 2  | 3  | 5  |
| R44       | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 4  | 4  | 4  | 4  | 4  |
| R45       | 4           | 5 | 4 | 2 | 3 | 4 | 3 | 4 | 3 | 3  | 4  | 3  | 4  | 5  | 5  |
| R46       | 2           | 5 | 2 | 2 | 3 | 3 | 3 | 5 | 4 | 3  | 2  | 2  | 4  | 4  | 5  |
| R47       | 4           | 4 | 2 | 2 | 3 | 4 | 4 | 3 | 2 | 3  | 5  | 2  | 3  | 2  | 3  |
| R48       | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  | 4  | 5  | 2  | 3  | 5  |
| R49       | 4           | 4 | 3 | 2 | 4 | 4 | 3 | 4 | 3 | 3  | 3  | 3  | 3  | 4  | 1  |
| R50       | 4           | 4 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 3  | 3  | 4  | 3  | 3  | 5  |
| R51       | 4           | 5 | 4 | 2 | 3 | 4 | 3 | 4 | 3 | 3  | 4  | 3  | 4  | 5  | 1  |
| R52       | 5           | 4 | 2 | 4 | 3 | 3 | 3 | 4 | 4 | 4  | 4  | 3  | 3  | 3  | 1  |
| R53       | 5           | 3 | 4 | 4 | 1 | 4 | 3 | 4 | 3 | 3  | 3  | 2  | 2  | 3  | 1  |
| R54       | 4           | 5 | 4 | 4 | 5 | 3 | 4 | 5 | 4 | 3  | 4  | 4  | 2  | 4  | 1  |
| R55       | 3           | 4 | 5 | 2 | 5 | 5 | 4 | 5 | 5 | 5  | 5  | 3  | 1  | 5  | 5  |
| R56       | 5           | 5 | 3 | 5 | 3 | 4 | 2 | 5 | 3 | 4  | 5  | 3  | 5  | 3  | 3  |
| R57       | 4           | 4 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 4  | 3  | 4  | 3  | 3  | 1  |
| R58       | 5           | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 3 | 4  | 2  | 4  | 2  | 3  | 2  |
| R59       | 3           | 4 | 4 | 3 | 3 | 1 | 4 | 4 | 4 | 3  | 3  | 3  | 2  | 3  | 3  |

| Responden | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R60       | 1           | 4 | 3 | 2 | 3 | 5 | 2 | 5 | 4 | 4  | 4  | 2  | 3  | 4  | 3  |
| R61       | 4           | 5 | 4 | 2 | 3 | 4 | 3 | 4 | 3 | 3  | 4  | 3  | 4  | 4  | 2  |
| R62       | 5           | 4 | 2 | 4 | 3 | 3 | 3 | 4 | 4 | 4  | 4  | 3  | 3  | 3  | 2  |
| R63       | 5           | 3 | 4 | 4 | 1 | 4 | 3 | 4 | 3 | 3  | 3  | 2  | 2  | 2  | 1  |
| R64       | 4           | 5 | 4 | 4 | 5 | 3 | 4 | 5 | 4 | 3  | 4  | 4  | 5  | 4  | 3  |
| R65       | 3           | 4 | 5 | 2 | 5 | 5 | 4 | 5 | 5 | 5  | 5  | 3  | 2  | 3  | 2  |
| R66       | 5           | 5 | 3 | 5 | 3 | 4 | 2 | 5 | 3 | 4  | 5  | 3  | 4  | 5  | 3  |
| R67       | 4           | 4 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 4  | 3  | 4  | 4  | 2  | 1  |
| R68       | 5           | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 3 | 4  | 2  | 4  | 4  | 3  | 1  |
| R69       | 4           | 4 | 4 | 5 | 3 | 5 | 4 | 4 | 4 | 3  | 3  | 3  | 3  | 2  | 3  |
| R70       | 5           | 4 | 3 | 2 | 3 | 5 | 2 | 5 | 4 | 4  | 4  | 2  | 2  | 5  | 1  |
| R71       | 2           | 4 | 5 | 2 | 2 | 5 | 3 | 3 | 2 | 3  | 3  | 5  | 3  | 4  | 2  |
| R72       | 5           | 5 | 5 | 5 | 5 | 2 | 5 | 5 | 2 | 4  | 4  | 2  | 3  | 5  | 3  |
| R73       | 2           | 5 | 2 | 2 | 4 | 5 | 4 | 5 | 5 | 4  | 4  | 2  | 4  | 2  | 3  |
| R74       | 2           | 5 | 2 | 2 | 3 | 3 | 3 | 5 | 4 | 3  | 2  | 2  | 3  | 2  | 5  |
| R75       | 5           | 5 | 4 | 4 | 3 | 4 | 5 | 4 | 3 | 5  | 4  | 3  | 2  | 3  | 4  |
| R76       | 3           | 4 | 4 | 2 | 4 | 3 | 3 | 5 | 5 | 4  | 4  | 2  | 2  | 2  | 2  |
| R77       | 5           | 2 | 4 | 1 | 2 | 4 | 5 | 3 | 2 | 1  | 3  | 1  | 1  | 2  | 1  |
| R78       | 4           | 4 | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 5  | 3  | 2  | 5  | 4  | 3  |
| R79       | 4           | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 3  | 3  | 3  | 3  | 2  | 2  |
| R80       | 3           | 5 | 3 | 3 | 3 | 4 | 4 | 5 | 3 | 4  | 5  | 2  | 2  | 1  | 3  |
| R81       | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 4  | 5  | 2  | 5  | 2  |
| R82       | 4           | 4 | 4 | 4 | 4 | 4 | 3 | 5 | 5 | 5  | 4  | 4  | 3  | 4  | 4  |
| R83       | 4           | 5 | 4 | 2 | 3 | 4 | 2 | 4 | 3 | 3  | 4  | 3  | 3  | 4  | 1  |
| R84       | 2           | 5 | 2 | 2 | 3 | 3 | 1 | 5 | 4 | 3  | 4  | 2  | 3  | 4  | 2  |
| R85       | 4           | 4 | 2 | 2 | 3 | 4 | 1 | 3 | 2 | 4  | 5  | 2  | 4  | 3  | 1  |
| R86       | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  | 4  | 5  | 3  | 3  | 2  |
| R87       | 4           | 4 | 3 | 2 | 4 | 4 | 1 | 4 | 3 | 4  | 3  | 3  | 2  | 4  | 4  |
| R88       | 4           | 4 | 5 | 5 | 5 | 3 | 2 | 3 | 3 | 4  | 3  | 4  | 2  | 5  | 3  |
| R89       | 4           | 5 | 4 | 2 | 3 | 4 | 5 | 4 | 3 | 3  | 4  | 3  | 1  | 1  | 2  |
| R90       | 5           | 4 | 2 | 4 | 3 | 3 | 5 | 4 | 4 | 4  | 4  | 3  | 5  | 3  | 3  |

| Responden   | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-------------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|             | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| <b>R91</b>  | 5           | 3 | 4 | 4 | 1 | 4 | 5 | 4 | 3 | 3  | 3  | 2  | 3  | 3  | 2  |
| <b>R92</b>  | 4           | 5 | 4 | 4 | 5 | 3 | 5 | 5 | 4 | 3  | 4  | 4  | 2  | 3  | 2  |
| <b>R93</b>  | 3           | 4 | 5 | 2 | 5 | 5 | 4 | 5 | 5 | 5  | 5  | 3  | 2  | 4  | 1  |
| <b>R94</b>  | 5           | 5 | 3 | 5 | 3 | 4 | 2 | 5 | 3 | 4  | 5  | 3  | 5  | 4  | 3  |
| <b>R95</b>  | 4           | 4 | 5 | 5 | 5 | 3 | 4 | 3 | 3 | 4  | 3  | 4  | 4  | 3  | 2  |
| <b>R96</b>  | 5           | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 3 | 4  | 2  | 4  | 2  | 2  | 3  |
| <b>R97</b>  | 4           | 4 | 4 | 3 | 3 | 1 | 3 | 4 | 4 | 3  | 3  | 3  | 4  | 4  | 1  |
| <b>R98</b>  | 2           | 3 | 3 | 2 | 4 | 5 | 4 | 5 | 5 | 4  | 1  | 4  | 1  | 3  | 2  |
| <b>R99</b>  | 5           | 5 | 5 | 4 | 2 | 4 | 5 | 3 | 2 | 1  | 5  | 3  | 4  | 5  | 1  |
| <b>R100</b> | 1           | 3 | 4 | 5 | 3 | 4 | 3 | 3 | 5 | 3  | 2  | 2  | 4  | 2  | 2  |
| <b>R101</b> | 3           | 1 | 5 | 3 | 4 | 4 | 3 | 4 | 2 | 2  | 1  | 3  | 3  | 3  | 4  |
| <b>R102</b> | 2           | 1 | 3 | 2 | 1 | 4 | 4 | 5 | 3 | 2  | 3  | 4  | 2  | 2  | 3  |
| <b>R103</b> | 3           | 5 | 3 | 2 | 1 | 3 | 5 | 1 | 4 | 1  | 3  | 4  | 5  | 5  | 2  |
| <b>R104</b> | 2           | 4 | 5 | 2 | 2 | 4 | 3 | 3 | 2 | 3  | 2  | 3  | 2  | 4  | 3  |
| <b>R105</b> | 5           | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 3 | 4  | 4  | 2  | 4  | 4  | 2  |
| <b>R106</b> | 2           | 5 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 4  | 4  | 2  | 4  | 2  | 2  |
| <b>R107</b> | 3           | 5 | 3 | 4 | 3 | 4 | 3 | 5 | 4 | 3  | 2  | 2  | 4  | 4  | 1  |
| <b>R108</b> | 5           | 5 | 4 | 4 | 3 | 3 | 5 | 4 | 3 | 5  | 4  | 3  | 3  | 1  | 2  |
| <b>R109</b> | 3           | 4 | 4 | 2 | 4 | 3 | 3 | 5 | 5 | 4  | 4  | 2  | 2  | 4  | 3  |
| <b>R110</b> | 5           | 2 | 4 | 1 | 2 | 3 | 5 | 3 | 2 | 1  | 3  | 1  | 3  | 4  | 2  |
| <b>R111</b> | 4           | 4 | 2 | 2 | 4 | 3 | 4 | 5 | 5 | 5  | 3  | 2  | 3  | 3  | 4  |
| <b>R112</b> | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3  | 3  | 3  | 4  | 2  | 1  |
| <b>R113</b> | 3           | 5 | 3 | 3 | 3 | 5 | 4 | 5 | 3 | 4  | 5  | 2  | 3  | 5  | 2  |
| <b>R114</b> | 1           | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 4  | 4  | 5  | 2  | 2  | 1  |
| <b>R115</b> | 4           | 3 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 4  | 2  |
| <b>R116</b> | 3           | 5 | 4 | 2 | 3 | 5 | 3 | 4 | 3 | 3  | 4  | 3  | 1  | 4  | 4  |
| <b>R117</b> | 3           | 5 | 2 | 2 | 3 | 4 | 5 | 5 | 4 | 3  | 2  | 2  | 5  | 4  | 3  |
| <b>R118</b> | 4           | 4 | 2 | 2 | 3 | 4 | 5 | 3 | 2 | 3  | 5  | 2  | 2  | 3  | 2  |
| <b>R119</b> | 4           | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5  | 4  | 5  | 5  | 2  | 3  |
| <b>R120</b> | 1           | 4 | 3 | 2 | 4 | 4 | 5 | 4 | 3 | 3  | 3  | 3  | 2  | 3  | 2  |

| Responden  | Nomor Butir |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|            | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |       |
| <b>R1</b>  | 4           | 5  | 5  | 5  | 5  | 5  | 4  | 4  | 4  | 2  | 5  | 5  | 2  | 5  | 5  | 123   |
| <b>R2</b>  | 5           | 3  | 5  | 5  | 5  | 5  | 4  | 3  | 5  | 5  | 5  | 5  | 2  | 5  | 3  | 121   |
| <b>R3</b>  | 3           | 2  | 5  | 5  | 3  | 5  | 5  | 4  | 2  | 5  | 3  | 4  | 2  | 3  | 2  | 113   |
| <b>R4</b>  | 2           | 4  | 2  | 2  | 2  | 2  | 1  | 2  | 2  | 2  | 4  | 2  | 2  | 4  | 2  | 78    |
| <b>R5</b>  | 4           | 2  | 4  | 4  | 4  | 4  | 5  | 4  | 4  | 3  | 4  | 5  | 4  | 4  | 3  | 115   |
| <b>R6</b>  | 4           | 2  | 4  | 4  | 4  | 4  | 5  | 4  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 112   |
| <b>R7</b>  | 4           | 2  | 4  | 4  | 4  | 4  | 5  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 114   |
| <b>R8</b>  | 3           | 3  | 3  | 4  | 3  | 3  | 1  | 3  | 3  | 4  | 4  | 4  | 3  | 3  | 3  | 96    |
| <b>R9</b>  | 5           | 2  | 4  | 5  | 5  | 5  | 5  | 3  | 5  | 4  | 5  | 5  | 1  | 5  | 3  | 115   |
| <b>R10</b> | 3           | 1  | 5  | 4  | 5  | 5  | 5  | 5  | 2  | 5  | 4  | 4  | 2  | 5  | 1  | 116   |
| <b>R11</b> | 3           | 2  | 4  | 4  | 5  | 4  | 1  | 3  | 3  | 4  | 4  | 3  | 3  | 4  | 3  | 104   |
| <b>R12</b> | 5           | 1  | 5  | 1  | 4  | 4  | 5  | 5  | 5  | 5  | 1  | 1  | 5  | 3  | 1  | 115   |
| <b>R13</b> | 5           | 3  | 4  | 5  | 5  | 3  | 5  | 4  | 3  | 5  | 5  | 3  | 2  | 4  | 3  | 114   |
| <b>R14</b> | 4           | 1  | 4  | 5  | 5  | 5  | 5  | 4  | 5  | 5  | 4  | 4  | 1  | 5  | 2  | 114   |
| <b>R15</b> | 3           | 3  | 3  | 3  | 3  | 3  | 3  | 2  | 3  | 1  | 3  | 2  | 4  | 3  | 3  | 89    |
| <b>R16</b> | 3           | 2  | 4  | 5  | 3  | 4  | 3  | 4  | 2  | 4  | 3  | 5  | 4  | 4  | 2  | 109   |
| <b>R17</b> | 4           | 4  | 5  | 5  | 4  | 4  | 2  | 4  | 2  | 4  | 4  | 3  | 1  | 4  | 2  | 95    |
| <b>R18</b> | 2           | 4  | 4  | 4  | 4  | 2  | 2  | 2  | 2  | 4  | 4  | 4  | 2  | 4  | 2  | 92    |
| <b>R19</b> | 4           | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 5  | 4  | 4  | 4  | 4  | 4  | 4  | 113   |
| <b>R20</b> | 3           | 4  | 4  | 2  | 5  | 4  | 2  | 3  | 4  | 4  | 4  | 2  | 4  | 4  | 4  | 107   |
| <b>R21</b> | 5           | 1  | 5  | 5  | 5  | 5  | 1  | 5  | 4  | 5  | 5  | 5  | 2  | 5  | 3  | 121   |
| <b>R22</b> | 2           | 2  | 4  | 4  | 4  | 3  | 3  | 3  | 2  | 4  | 4  | 4  | 5  | 3  | 2  | 99    |
| <b>R23</b> | 4           | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 2  | 4  | 3  | 4  | 4  | 4  | 2  | 105   |
| <b>R24</b> | 2           | 2  | 4  | 5  | 3  | 4  | 4  | 1  | 5  | 4  | 2  | 1  | 4  | 5  | 5  | 92    |
| <b>R25</b> | 5           | 5  | 1  | 2  | 1  | 5  | 1  | 5  | 2  | 4  | 2  | 3  | 5  | 2  | 2  | 77    |
| <b>R26</b> | 1           | 2  | 2  | 4  | 3  | 4  | 1  | 5  | 5  | 1  | 3  | 5  | 4  | 4  | 2  | 84    |
| <b>R27</b> | 3           | 3  | 3  | 5  | 3  | 3  | 5  | 2  | 1  | 2  | 1  | 5  | 4  | 4  | 2  | 99    |
| <b>R28</b> | 1           | 4  | 3  | 1  | 5  | 3  | 1  | 3  | 3  | 5  | 1  | 2  | 4  | 5  | 2  | 89    |
| <b>R29</b> | 4           | 5  | 3  | 3  | 1  | 5  | 3  | 2  | 4  | 4  | 1  | 2  | 2  | 1  | 1  | 84    |



| Responden | Nomor Butir |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|-----------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|           | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |       |
| R30       | 3           | 4  | 5  | 2  | 4  | 5  | 5  | 3  | 3  | 1  | 3  | 2  | 5  | 2  | 1  | 95    |
| R31       | 1           | 5  | 1  | 3  | 3  | 5  | 5  | 5  | 3  | 1  | 3  | 3  | 4  | 2  | 1  | 90    |
| R32       | 2           | 2  | 4  | 4  | 3  | 1  | 4  | 3  | 4  | 1  | 2  | 5  | 5  | 4  | 4  | 91    |
| R33       | 4           | 2  | 2  | 3  | 3  | 3  | 2  | 2  | 4  | 5  | 1  | 4  | 3  | 1  | 2  | 90    |
| R34       | 4           | 1  | 3  | 3  | 3  | 4  | 2  | 3  | 3  | 2  | 3  | 1  | 5  | 3  | 5  | 106   |
| R35       | 3           | 2  | 3  | 5  | 3  | 4  | 3  | 2  | 2  | 4  | 4  | 3  | 2  | 4  | 2  | 101   |
| R36       | 3           | 2  | 3  | 5  | 5  | 4  | 2  | 3  | 5  | 4  | 4  | 4  | 1  | 5  | 4  | 100   |
| R37       | 4           | 2  | 4  | 4  | 4  | 4  | 1  | 5  | 5  | 4  | 3  | 3  | 3  | 4  | 4  | 111   |
| R38       | 2           | 4  | 3  | 1  | 3  | 3  | 2  | 2  | 1  | 2  | 3  | 3  | 3  | 2  | 2  | 89    |
| R39       | 1           | 1  | 1  | 1  | 4  | 5  | 5  | 1  | 1  | 5  | 4  | 3  | 3  | 3  | 3  | 83    |
| R40       | 3           | 1  | 5  | 5  | 5  | 5  | 2  | 5  | 2  | 3  | 4  | 4  | 5  | 5  | 2  | 106   |
| R41       | 3           | 2  | 5  | 4  | 3  | 2  | 2  | 4  | 4  | 4  | 3  | 4  | 4  | 3  | 4  | 106   |
| R42       | 3           | 2  | 4  | 5  | 4  | 3  | 3  | 3  | 3  | 4  | 4  | 3  | 2  | 4  | 3  | 109   |
| R43       | 4           | 1  | 4  | 5  | 5  | 5  | 4  | 5  | 4  | 4  | 4  | 5  | 4  | 4  | 4  | 121   |
| R44       | 4           | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 5  | 4  | 4  | 121   |
| R45       | 3           | 2  | 4  | 5  | 5  | 4  | 2  | 3  | 3  | 5  | 5  | 5  | 1  | 5  | 2  | 110   |
| R46       | 3           | 2  | 3  | 5  | 5  | 4  | 2  | 3  | 5  | 4  | 4  | 4  | 1  | 5  | 4  | 103   |
| R47       | 4           | 1  | 3  | 4  | 3  | 4  | 3  | 5  | 4  | 5  | 3  | 5  | 4  | 4  | 4  | 102   |
| R48       | 4           | 1  | 4  | 5  | 5  | 5  | 4  | 5  | 4  | 4  | 4  | 5  | 4  | 4  | 4  | 131   |
| R49       | 4           | 3  | 4  | 4  | 4  | 3  | 2  | 2  | 2  | 3  | 4  | 4  | 4  | 3  | 2  | 96    |
| R50       | 5           | 1  | 5  | 3  | 5  | 4  | 2  | 4  | 3  | 3  | 4  | 4  | 3  | 4  | 3  | 109   |
| R51       | 3           | 2  | 4  | 5  | 5  | 4  | 2  | 3  | 3  | 5  | 5  | 5  | 1  | 5  | 2  | 106   |
| R52       | 4           | 2  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 108   |
| R53       | 3           | 2  | 3  | 2  | 3  | 3  | 3  | 3  | 4  | 2  | 4  | 3  | 4  | 3  | 3  | 90    |
| R54       | 4           | 2  | 5  | 5  | 4  | 4  | 1  | 4  | 4  | 5  | 4  | 5  | 3  | 4  | 5  | 115   |
| R55       | 5           | 1  | 5  | 5  | 5  | 5  | 2  | 5  | 5  | 5  | 4  | 4  | 4  | 4  | 5  | 126   |
| R56       | 5           | 3  | 5  | 4  | 2  | 3  | 1  | 4  | 5  | 3  | 1  | 2  | 4  | 3  | 5  | 108   |
| R57       | 5           | 1  | 5  | 3  | 5  | 4  | 2  | 4  | 3  | 3  | 4  | 4  | 3  | 4  | 3  | 106   |
| R58       | 5           | 1  | 4  | 4  | 4  | 4  | 4  | 4  | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 114   |
| R59       | 2           | 3  | 4  | 4  | 3  | 3  | 3  | 2  | 2  | 4  | 3  | 3  | 3  | 3  | 3  | 92    |

| Responden  | Nomor Butir |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|            | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |       |
| <b>R60</b> | 2           | 2  | 3  | 5  | 4  | 3  | 3  | 3  | 2  | 4  | 4  | 3  | 3  | 4  | 3  | 97    |
| <b>R61</b> | 3           | 1  | 2  | 3  | 3  | 3  | 1  | 4  | 4  | 2  | 5  | 5  | 2  | 5  | 5  | 100   |
| <b>R62</b> | 3           | 2  | 3  | 3  | 3  | 4  | 1  | 3  | 5  | 5  | 5  | 5  | 2  | 5  | 3  | 103   |
| <b>R63</b> | 4           | 2  | 3  | 5  | 3  | 4  | 2  | 4  | 2  | 5  | 3  | 4  | 2  | 3  | 2  | 92    |
| <b>R64</b> | 2           | 1  | 3  | 5  | 5  | 4  | 2  | 2  | 2  | 2  | 4  | 2  | 2  | 4  | 2  | 103   |
| <b>R65</b> | 1           | 4  | 4  | 4  | 4  | 4  | 2  | 4  | 4  | 3  | 4  | 5  | 4  | 4  | 3  | 112   |
| <b>R66</b> | 3           | 2  | 3  | 1  | 3  | 3  | 2  | 4  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 105   |
| <b>R67</b> | 3           | 2  | 1  | 1  | 4  | 5  | 2  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 103   |
| <b>R68</b> | 3           | 1  | 5  | 5  | 5  | 5  | 2  | 3  | 3  | 4  | 4  | 4  | 3  | 3  | 3  | 111   |
| <b>R69</b> | 4           | 1  | 5  | 4  | 3  | 2  | 1  | 3  | 5  | 4  | 5  | 5  | 1  | 5  | 3  | 105   |
| <b>R70</b> | 4           | 3  | 4  | 5  | 4  | 3  | 2  | 5  | 2  | 5  | 4  | 4  | 2  | 5  | 1  | 104   |
| <b>R71</b> | 3           | 1  | 4  | 5  | 5  | 5  | 2  | 3  | 3  | 4  | 4  | 3  | 3  | 4  | 3  | 100   |
| <b>R72</b> | 3           | 2  | 4  | 4  | 4  | 4  | 3  | 5  | 5  | 5  | 1  | 1  | 5  | 3  | 1  | 110   |
| <b>R73</b> | 4           | 2  | 4  | 5  | 5  | 4  | 1  | 4  | 3  | 5  | 5  | 3  | 2  | 4  | 3  | 107   |
| <b>R74</b> | 4           | 2  | 3  | 5  | 5  | 4  | 3  | 4  | 5  | 5  | 4  | 4  | 1  | 5  | 2  | 102   |
| <b>R75</b> | 4           | 2  | 3  | 4  | 3  | 4  | 3  | 2  | 3  | 1  | 3  | 2  | 4  | 3  | 3  | 102   |
| <b>R76</b> | 5           | 1  | 4  | 5  | 5  | 5  | 2  | 4  | 2  | 4  | 3  | 5  | 4  | 4  | 2  | 104   |
| <b>R77</b> | 3           | 3  | 4  | 4  | 4  | 3  | 2  | 4  | 2  | 4  | 4  | 3  | 1  | 4  | 2  | 84    |
| <b>R78</b> | 4           | 1  | 5  | 3  | 5  | 4  | 2  | 2  | 2  | 4  | 4  | 4  | 2  | 4  | 2  | 104   |
| <b>R79</b> | 3           | 1  | 4  | 5  | 5  | 4  | 2  | 4  | 5  | 4  | 4  | 4  | 4  | 4  | 4  | 110   |
| <b>R80</b> | 4           | 3  | 4  | 4  | 4  | 4  | 1  | 3  | 4  | 4  | 4  | 2  | 4  | 4  | 4  | 103   |
| <b>R81</b> | 5           | 2  | 3  | 2  | 3  | 3  | 3  | 5  | 4  | 5  | 5  | 5  | 2  | 5  | 3  | 113   |
| <b>R82</b> | 5           | 2  | 5  | 5  | 4  | 4  | 2  | 3  | 2  | 4  | 4  | 4  | 5  | 3  | 2  | 115   |
| <b>R83</b> | 5           | 1  | 5  | 5  | 5  | 5  | 4  | 4  | 2  | 4  | 3  | 4  | 4  | 4  | 2  | 106   |
| <b>R84</b> | 5           | 2  | 5  | 4  | 2  | 3  | 2  | 2  | 5  | 4  | 2  | 1  | 4  | 5  | 5  | 96    |
| <b>R85</b> | 2           | 1  | 5  | 3  | 5  | 4  | 2  | 5  | 2  | 4  | 2  | 3  | 5  | 2  | 2  | 91    |
| <b>R86</b> | 2           | 3  | 2  | 3  | 3  | 3  | 5  | 4  | 5  | 1  | 3  | 5  | 4  | 4  | 2  | 116   |
| <b>R87</b> | 4           | 1  | 3  | 3  | 3  | 4  | 2  | 3  | 1  | 2  | 1  | 5  | 4  | 4  | 2  | 91    |
| <b>R88</b> | 4           | 3  | 3  | 5  | 3  | 4  | 2  | 4  | 4  | 2  | 5  | 5  | 2  | 5  | 5  | 111   |
| <b>R89</b> | 4           | 2  | 3  | 5  | 5  | 4  | 2  | 3  | 5  | 5  | 5  | 5  | 2  | 5  | 3  | 106   |

| Responden   | Nomor Butir |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|-------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|             | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |       |
| <b>R90</b>  | 3           | 4  | 4  | 4  | 4  | 4  | 2  | 4  | 2  | 5  | 3  | 4  | 2  | 3  | 2  | 106   |
| <b>R91</b>  | 5           | 4  | 3  | 1  | 3  | 3  | 2  | 2  | 2  | 2  | 4  | 2  | 2  | 4  | 2  | 90    |
| <b>R92</b>  | 3           | 2  | 1  | 1  | 4  | 5  | 2  | 4  | 4  | 3  | 4  | 5  | 4  | 4  | 3  | 106   |
| <b>R93</b>  | 3           | 4  | 5  | 5  | 5  | 5  | 2  | 4  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 116   |
| <b>R94</b>  | 5           | 1  | 5  | 4  | 3  | 2  | 2  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 113   |
| <b>R95</b>  | 5           | 2  | 4  | 5  | 4  | 3  | 2  | 3  | 3  | 4  | 4  | 4  | 3  | 3  | 3  | 108   |
| <b>R96</b>  | 4           | 2  | 4  | 5  | 5  | 5  | 1  | 3  | 5  | 4  | 5  | 5  | 1  | 5  | 3  | 114   |
| <b>R97</b>  | 3           | 2  | 4  | 4  | 4  | 4  | 2  | 5  | 2  | 5  | 4  | 4  | 2  | 5  | 1  | 99    |
| <b>R98</b>  | 3           | 5  | 4  | 5  | 5  | 4  | 2  | 3  | 3  | 4  | 4  | 3  | 3  | 4  | 3  | 103   |
| <b>R99</b>  | 4           | 2  | 4  | 5  | 5  | 4  | 3  | 5  | 5  | 5  | 1  | 1  | 5  | 3  | 1  | 107   |
| <b>R100</b> | 2           | 2  | 3  | 4  | 3  | 4  | 1  | 4  | 3  | 5  | 5  | 3  | 2  | 4  | 3  | 94    |
| <b>R101</b> | 4           | 2  | 4  | 5  | 5  | 5  | 3  | 4  | 5  | 5  | 4  | 4  | 1  | 5  | 2  | 103   |
| <b>R102</b> | 3           | 2  | 4  | 4  | 4  | 3  | 3  | 2  | 3  | 1  | 3  | 2  | 4  | 3  | 3  | 85    |
| <b>R103</b> | 5           | 4  | 5  | 3  | 5  | 4  | 2  | 4  | 2  | 4  | 3  | 5  | 4  | 4  | 2  | 103   |
| <b>R104</b> | 2           | 1  | 4  | 5  | 5  | 4  | 2  | 4  | 2  | 4  | 4  | 3  | 1  | 4  | 2  | 91    |
| <b>R105</b> | 4           | 1  | 4  | 4  | 4  | 4  | 2  | 2  | 2  | 4  | 4  | 4  | 2  | 4  | 2  | 109   |
| <b>R106</b> | 2           | 2  | 3  | 2  | 3  | 3  | 2  | 4  | 5  | 4  | 4  | 4  | 4  | 4  | 4  | 103   |
| <b>R107</b> | 5           | 2  | 5  | 5  | 4  | 4  | 1  | 3  | 4  | 4  | 4  | 2  | 4  | 4  | 4  | 105   |
| <b>R108</b> | 1           | 1  | 5  | 5  | 5  | 5  | 3  | 5  | 4  | 5  | 5  | 5  | 2  | 5  | 3  | 113   |
| <b>R109</b> | 3           | 4  | 5  | 4  | 2  | 3  | 2  | 3  | 2  | 4  | 4  | 4  | 5  | 3  | 2  | 102   |
| <b>R110</b> | 1           | 2  | 5  | 3  | 5  | 4  | 4  | 4  | 2  | 4  | 3  | 4  | 4  | 4  | 2  | 92    |
| <b>R111</b> | 4           | 2  | 3  | 4  | 3  | 4  | 1  | 1  | 5  | 4  | 2  | 1  | 4  | 5  | 5  | 101   |
| <b>R112</b> | 3           | 1  | 4  | 5  | 5  | 5  | 1  | 5  | 2  | 4  | 2  | 3  | 5  | 2  | 2  | 101   |
| <b>R113</b> | 1           | 1  | 4  | 4  | 4  | 3  | 5  | 5  | 5  | 1  | 3  | 5  | 4  | 4  | 2  | 106   |
| <b>R114</b> | 2           | 3  | 5  | 3  | 5  | 4  | 1  | 2  | 3  | 2  | 1  | 5  | 4  | 4  | 2  | 98    |
| <b>R115</b> | 4           | 1  | 4  | 5  | 5  | 4  | 2  | 4  | 4  | 2  | 5  | 5  | 2  | 5  | 5  | 113   |
| <b>R116</b> | 4           | 2  | 4  | 4  | 4  | 4  | 2  | 3  | 5  | 5  | 5  | 5  | 2  | 5  | 3  | 108   |
| <b>R117</b> | 2           | 2  | 3  | 2  | 3  | 3  | 2  | 4  | 2  | 5  | 3  | 4  | 2  | 3  | 2  | 94    |
| <b>R118</b> | 5           | 2  | 5  | 5  | 4  | 4  | 2  | 2  | 2  | 2  | 4  | 2  | 2  | 4  | 2  | 93    |
| <b>R119</b> | 1           | 2  | 5  | 5  | 5  | 5  | 2  | 4  | 4  | 3  | 4  | 5  | 4  | 4  | 3  | 123   |

| Responden   | Nomor Butir |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|-------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|             | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |       |
| <b>R120</b> | 3           | 1  | 5  | 4  | 2  | 3  | 2  | 4  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 95    |



## Lampiran 4

### OUTPUT SPSS STATISTIC ANALISIS KONSISTENSI INTERNAL BUTIR DAN REALIBILITAS KUESIONER KONDISI EKONOMI KELUARGA

#### A. Analisis Konsisten Internal Butir Kuesioner

| Correlations  |                     |        |
|---------------|---------------------|--------|
|               |                     | Total  |
| Pernyataan_1  | Pearson Correlation | .293** |
|               | Sig. (2-tailed)     | 0,001  |
|               | N                   | 120    |
| Pernyataan_2  | Pearson Correlation | .461** |
|               | Sig. (2-tailed)     | 0,000  |
|               | N                   | 120    |
| Pernyataan_3  | Pearson Correlation | .343** |
|               | Sig. (2-tailed)     | 0,000  |
|               | N                   | 120    |
| Pernyataan_4  | Pearson Correlation | .380** |
|               | Sig. (2-tailed)     | 0,000  |
|               | N                   | 120    |
| Pernyataan_5  | Pearson Correlation | .630** |
|               | Sig. (2-tailed)     | 0,000  |
|               | N                   | 120    |
| Pernyataan_6  | Pearson Correlation | .229*  |
|               | Sig. (2-tailed)     | 0,012  |
|               | N                   | 120    |
| Pernyataan_7  | Pearson Correlation | .211*  |
|               | Sig. (2-tailed)     | 0,021  |
|               | N                   | 120    |
| Pernyataan_8  | Pearson Correlation | .434** |
|               | Sig. (2-tailed)     | 0,000  |
|               | N                   | 120    |
| Pernyataan_9  | Pearson Correlation | .318** |
|               | Sig. (2-tailed)     | 0,000  |
|               | N                   | 120    |
| Pernyataan_10 | Pearson Correlation | .382** |
|               | Sig. (2-tailed)     | 0,000  |
|               | N                   | 120    |
| Pernyataan_11 | Pearson Correlation | .268** |
|               | Sig. (2-tailed)     | 0,003  |
|               | N                   | 120    |
| Pernyataan_12 | Pearson Correlation | .493** |
|               | Sig. (2-tailed)     | 0,000  |
|               | N                   | 120    |
| Pernyataan_13 | Pearson Correlation | 0,129  |
|               | Sig. (2-tailed)     | 0,160  |
|               | N                   | 120    |
| Pernyataan_14 | Pearson Correlation | .220*  |
|               | Sig. (2-tailed)     | 0,016  |
|               | N                   | 120    |
| Pernyataan_15 | Pearson Correlation | .236** |
|               | Sig. (2-tailed)     | 0,009  |

|  |                     |         |
|--|---------------------|---------|
|  | N                   | 120     |
| Pernyataan_16  | Pearson Correlation | .366**  |
|  | Sig. (2-tailed)     | 0,000   |
|  | N                   | 120     |
| Pernyataan_17  | Pearson Correlation | -.273** |
|  | Sig. (2-tailed)     | 0,003   |
|  | N                   | 120     |
| Pernyataan_18  | Pearson Correlation | .445**  |
|  | Sig. (2-tailed)     | 0,000   |
|  | N                   | 120     |
| Pernyataan_19  | Pearson Correlation | .406**  |
|  | Sig. (2-tailed)     | 0,000   |
|  | N                   | 120     |
| Pernyataan_20  | Pearson Correlation | .465**  |
|  | Sig. (2-tailed)     | 0,000   |
|  | N                   | 120     |
| Pernyataan_21  | Pearson Correlation | .352**  |
|  | Sig. (2-tailed)     | 0,000   |
|  | N                   | 120     |
| Pernyataan_22  | Pearson Correlation | .226*   |
|  | Sig. (2-tailed)     | 0,013   |
|  | N                   | 120     |
| Pernyataan_23  | Pearson Correlation | .413**  |
|  | Sig. (2-tailed)     | 0,000   |
|  | N                   | 120     |
| Pernyataan_24  | Pearson Correlation | .414**  |
|  | Sig. (2-tailed)     | 0,000   |
|  | N                   | 120     |
| Pernyataan_25  | Pearson Correlation | .267**  |
|  | Sig. (2-tailed)     | 0,003   |
|  | N                   | 120     |
| Pernyataan_26  | Pearson Correlation | .376**  |
|  | Sig. (2-tailed)     | 0,000   |
|  | N                   | 120     |
| Pernyataan_27  | Pearson Correlation | .394**  |
|  | Sig. (2-tailed)     | 0,000   |
|  | N                   | 120     |
| Pernyataan_28  | Pearson Correlation | -0,016  |
|  | Sig. (2-tailed)     | 0,863   |
|  | N                   | 120     |
| Pernyataan_29  | Pearson Correlation | .381**  |
|  | Sig. (2-tailed)     | 0,000   |
|  | N                   | 120     |
| Pernyataan_30  | Pearson Correlation | .328**  |
|  | Sig. (2-tailed)     | 0,000   |
|  | N                   | 120     |
| *. Correlation is significant at the 0.05 level (2-tailed).  |                     |         |
| **. Correlation is significant at the 0.01 level (2-tailed). |                     |         |



## B. Analisis Reliabilitas Kuesioner

| <b>Case Processing Summary</b> |                       |     |       |
|--------------------------------|-----------------------|-----|-------|
|                                |                       | N   | %     |
| Cases                          | Valid                 | 120 | 100.0 |
|                                | Excluded <sup>a</sup> | 0   | .0    |
|                                | Total                 | 120 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| <b>Reliability Statistics</b> |            |
|-------------------------------|------------|
| Cronbach's Alpha              | N of Items |
| 9,677                         | 30         |



## Lampiran 5

**REKAPITULASI ANALISIS HASIL UJI COBA  
KUESIONER KONDISI EKONOMI KELUARGA**

**A. Analisis Konsistensi Internal Butir**

Berikut tabel analisis internal butir kuesioner kondisi ekonomi

keluarga responden berjumlah 120 siswa dan taraf signifikansi 0,05 dengan

$dk = n - 2$

| No. Butir | Nilai r hitug ( $r_{xy}$ ) | Nilai r tabel ( $r_{tabel}$ ) | Keterangan           | Kualifikasi | Keputusan |
|-----------|----------------------------|-------------------------------|----------------------|-------------|-----------|
| 1         | 0,293                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 2         | 0,461                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 3         | 0,343                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 4         | 0,380                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 5         | 0,630                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 6         | 0,229                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 7         | 0,211                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 8         | 0,434                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 9         | 0,318                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 10        | 0,382                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 11        | 0,268                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 12        | 0,493                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 13        | 0,129                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Tidak Valid | Ditolak   |
| 14        | 0,220                      | 0,1793                        | $r_{xy} < r_{tabel}$ | Valid       | Diterima  |
| 15        | 0,236                      | 0,1793                        | $r_{xy} < r_{tabel}$ | Valid       | Diterima  |
| 16        | 0,366                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 17        | -0,273                     | 0,1793                        | $r_{xy} < r_{tabel}$ | Tidak Valid | Ditolak   |
| 18        | 0,445                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 19        | 0,406                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 20        | 0,465                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 21        | 0,352                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 22        | 0,226                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 23        | 0,413                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 24        | 0,414                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 25        | 0,267                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 26        | 0,376                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |

|    |        |        |                      |            |          |
|----|--------|--------|----------------------|------------|----------|
| 27 | 0,394  | 0,1793 | $r_{xy} > r_{tabel}$ | Valid      | Diterima |
| 28 | -0,016 | 0,1793 | $r_{xy} > r_{tabel}$ | Tiak Valid | Ditolak  |
| 29 | 0,381  | 0,1793 | $r_{xy} > r_{tabel}$ | Valid      | Diterima |
| 30 | 0,328  | 0,1793 | $r_{xy} > r_{tabel}$ | Valid      | Diterima |

#### Kriteria Konsisten Internal Butir

| Keterangan           | Kualifikasi | Keputusan |
|----------------------|-------------|-----------|
| $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| $r_{xy} < r_{tabel}$ | Tidak Valid | Ditolak   |

Berdasarkan hasil analisis konsistensi internal butir kuesioner kondisi ekonomi keluarga, butir kuesioner yang diterima sejumlah 27 butir dan butir kuesioner yang gugur sejumlah 3 butir dan karena keterbatasan waktu maka yang digunakan dalam penelitian sejumlah 25 butir dengan semua indikator terwakili.

#### B. Analisis Reliabilitas

Analisis reliabilitas kuesioner kondisi ekonomi keluarga menggunakan *IBM SPSS Statistic Version 26* dengan hasil yang diperoleh sebagai berikut.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| 0,677                  | 30         |

Nilai dari *Cronbach's Alpha* sebesar 0,677 ( $0,677 > 0,60$ ) menunjukkan bahwa kuesioner kondisi ekonomi keluarga yang diuji memiliki reliabilitas yang tinggi (*reliable*) (sujerweni,2004). Hasil ini menunjukkan bahwa kuesioner kondisi ekonomi keluarga sudah lolos uji reliabilitas dan dinyatakan layak digunakan untuk pengambilan data penelitian.

## Lampiran 6

### KISI-KISI KUESIONER KEDISIPLINAN SISWA YANG DIUJICOBAKAN

| No.          | Dimensi  | Indikator   | Nomor Butir |           | Jumlah    |
|--------------|--|---|-------------|-----------|-----------|
|              |  |   | Positif     | Negatif   |           |
| 1.           | Ketaatan terhadap tata tertib sekolah            | Kepatuhan siswa terhadap jam KBM berlangsung                        | 1, 2,       | 3         | 3         |
|              |  | Ketaatan dalam menjalankan sanksi pelanggaran tertib                | 5           | 4, 6      | 3         |
|              |  | Ketaatan dalam pemenuhan absensi sekolah                            | 7           | 8         | 2         |
| 2.           | Ketaatan dalam mengerjakan tugas-tugas pelajaran | Ketaatan penyelesaian tugas dengan tepat waktu                      | 9, 10       |           | 2         |
|              |  | Ketaatan dalam menjalankan sanksi pelanggaran tata tertib penugasan | 11          | 12        | 2         |
|              |  | Kejujuran dalam menyelesaikan tugas secara individu                 | 13, 15      | 14        | 3         |
| 3.           | Disiplin terhadap kegiatan belajar di sekolah    | Kesadaran beretika yang baik di dalam sekolah                       | 16, 17      | 18        | 3         |
|              |  | Kesadaran dalam mengikuti KBM secara tertib                         | 19, 21      | 20        | 3         |
|              |  | Keterampilan dalam menyimak pembelajaran                            | 22, 24      | 23        | 3         |
| 4.           | Disiplin terhadap kegiatan belajar di rumah      | Konsisten melakukan refleksi dari pembelajaran sebelumnya           | 25, 26      |           | 2         |
|              |  | Ketaatan menyelesaikan tugas rumah dengan baik                      | 27          | 28        | 2         |
|              |  | Terampil dalam menyelesaikan tugas rumah secara variatif            | 30,29       |           | 2         |
| <b>Total</b> |  |   | <b>20</b>   | <b>10</b> | <b>30</b> |

Berikut merupakan pedoman penskoran untuk kuesioner kedisiplinan yang akan diujicobakan dalam penelitian ini.

**RUBRIK PENSKORAN KUESIONER KEDISIPLINAN**

| <b>Pilihan Jawaban</b>    | <b>Skor</b>               |                           |
|---------------------------|---------------------------|---------------------------|
|                           | <b>Pernyataan Positif</b> | <b>Pernyataan Negatif</b> |
| Sangat Setuju (SS)        | 5                         | 1                         |
| Setuju (S)                | 4                         | 2                         |
| Ragu (R)                  | 3                         | 3                         |
| Tidak Setuju (TS)         | 2                         | 4                         |
| Sangat Tidak Setuju (STS) | 1                         | 5                         |



## Lampiran 7

### KUESIONER KEDISIPLINAN SISWA YANG DIUJICOBAKAN

#### A. Identitas Responden

1. Nama :
2. Kelas :
3. Sekolah :

#### B. Petunjuk Pengisian:

1. Isilah identitas pada lembar kuisisioner
2. Bacalah pernyataan dengan cermat, kemudian jawablah sesuai dengan keadaan anda yang sebenarnya dengan cara memberi tanda ceklis (✓) pada salah satu kolom jawaban.
3. Selesai mengerjakan, telitilah kembali dan pastikan bahwa setiap pertanyaan di kuisisioner ini terjawab semua.
4. Angket ini tidak mempengaruhi nilai mata pelajaran
5. Keterangan : SS (Sangat setuju), S (Setuju), R (Ragu), TS (Tidak Setuju), STS (Sangat Tidak Setuju)
6. Selamat mengerjakan dan terimakasih atas partisipasinya dalam mengisi angket ini.

| NO. | Pernyataan  | SS | S | R | TS | STS |
|-----|---|----|---|---|----|-----|
| 1.  | Saya sampai di Sekolah sebelum bel berbunyi   |    |   |   |    |     |
| 2.  | Saya masuk kelas tepat waktu  |    |   |   |    |     |
| 3.  | Saya tidak pernah bolos pada saat jam pelajaran fisika                                |    |   |   |    |     |
| 4.  | Saya membantah ketika dinasehati oleh guru  |    |   |   |    |     |
| 5.  | Saya mengulangi kesalahan meskipun sudah diberikan surat peringatan                   |    |   |   |    |     |
| 6.  | Saya tidak melakukan kegiatan yang melanggar tata tertib ketika pelajaran berlangsung |    |   |   |    |     |



| NO. | Pernyataan  | SS | S | R | TS | STS |
|-----|---|----|---|---|----|-----|
| 7.  | Saya tidak pernah keluar dari kelas tanpa alasan meskipun guru tidak dapat mengisi jam pelajaran di kelas |    |   |   |    |     |
| 8.  | Saya beberapa-kali keluar dari kelas sebelum jam pelajaran berakhir                                       |    |   |   |    |     |
| 9.  | Saya tidak langsung mengerjakan tugas ketika guru memberikan tugas di kelas                               |    |   |   |    |     |
| 10. | Saya mengumpulkan PR tepat pada hari pengumpulan tugas  |    |   |   |    |     |
| 11. | Saya tidak pernah meminta penambahan waktu untuk mengerjakan tugas demi kepentingan pribadi               |    |   |   |    |     |
| 12. | Saya menjalankan hukuman dengan tanggung jawab apabila saya benar melakukan pelanggaran.                  |    |   |   |    |     |
| 13. | Saya mengabaikan hukuman meskipun saya terbukti tidak mematuhi aturan dalam melaksanakan tugas            |    |   |   |    |     |
| 14. | Saya mengerjakan tugas sekolah dengan penuh tanggung jawab secara mandiri                                 |    |   |   |    |     |
| 15. | Saya melihat jawaban teman ketika diberi tugas  |    |   |   |    |     |
| 16. | Saya mengucapkan salam ketika masuk kelas   |    |   |   |    |     |
| 17. | Saya berdoa sebelum pelajaran dimulai   |    |   |   |    |     |
| 18. | Saya mendapat teguran dari guru karena masuk kelas tanpa izin   |    |   |   |    |     |
| 19. | Saya memperhatikan penjelasan guru dengan baik ketika kegiatan belajar mengajar berlangsung               |    |   |   |    |     |
| 20. | Saya sibuk mengerjakan PR diluar mata pelajaran yang sedang diajarkan sehingga tidak mendengarkan         |    |   |   |    |     |

| NO. | Pernyataan  | SS | S | R | TS | STS |
|-----|---|----|---|---|----|-----|
|     | penjelasan dari guru ketika kegiatan belajar mengajar berlangsung                                     |    |   |   |    |     |
| 21. | Saya menyimak dan mendengarkan materi pelajaran dengan sungguh-sungguh                                |    |   |   |    |     |
| 22. | Saya menggaris bawahi point-point materi ketika kegiatan belajar mengajar berlangsung                 |    |   |   |    |     |
| 23. | Saya asal-asalan saat menuliskan point-point materi ketika guru menjelaskan                           |    |   |   |    |     |
| 24. | Saya melakukan dokumentasi point-point materi di papan tulis menggunakan smartphone saya              |    |   |   |    |     |
| 25. | Saya mempelajari kembali materi yang sudah dijelaskan oleh guru                                       |    |   |   |    |     |
| 26. | Saya membuat peta konsep untuk materi yang sudah diajarkan agar lebih mudah dipahami                  |    |   |   |    |     |
| 27. | Saya segera mengerjakan pekerjaan rumah sebelum batas waktu pengumpulan.                              |    |   |   |    |     |
| 28. | Saya bergantung kepada teman saat mengerjakan tugas rumah.  |    |   |   |    |     |
| 29. | Saya membuat list kegiatan harian supaya lebih produktif  |    |   |   |    |     |
| 30. | Saya menggunakan media pembelajaran (Youtube) selain buku untuk meningkatkan kemampuan pemahaman saya |    |   |   |    |     |

## Lampiran 8

## DATA HASIL UJI COBA KUESIONER KEDISIPLINAN SISWA

| Responden | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R1        | 5           | 5 | 2 | 5 | 5 | 5 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 1  | 5  |
| R2        | 4           | 4 | 4 | 4 | 5 | 5 | 5 | 1 | 4 | 5  | 5  | 1  | 5  | 1  | 4  |
| R3        | 5           | 5 | 3 | 4 | 5 | 5 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 1  | 4  |
| R4        | 5           | 5 | 4 | 3 | 5 | 3 | 5 | 1 | 5 | 5  | 5  | 1  | 4  | 1  | 5  |
| R5        | 5           | 5 | 2 | 3 | 5 | 4 | 5 | 2 | 4 | 4  | 3  | 3  | 3  | 3  | 3  |
| R6        | 4           | 4 | 4 | 4 | 3 | 5 | 4 | 2 | 5 | 3  | 3  | 2  | 3  | 4  | 3  |
| R7        | 3           | 4 | 1 | 5 | 3 | 4 | 4 | 2 | 4 | 4  | 4  | 3  | 4  | 4  | 3  |
| R8        | 5           | 5 | 4 | 5 | 3 | 5 | 4 | 2 | 4 | 4  | 4  | 2  | 4  | 5  | 4  |
| R9        | 4           | 4 | 3 | 2 | 4 | 5 | 4 | 2 | 4 | 4  | 4  | 2  | 3  | 3  | 4  |
| R10       | 4           | 4 | 3 | 2 | 4 | 3 | 4 | 2 | 4 | 4  | 4  | 2  | 3  | 3  | 3  |
| R11       | 4           | 4 | 2 | 5 | 3 | 4 | 3 | 2 | 4 | 4  | 3  | 3  | 4  | 4  | 3  |
| R12       | 5           | 5 | 4 | 3 | 3 | 2 | 4 | 2 | 5 | 4  | 4  | 2  | 4  | 2  | 3  |
| R13       | 5           | 5 | 1 | 1 | 4 | 1 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 1  | 3  |
| R14       | 5           | 5 | 1 | 1 | 5 | 1 | 5 | 1 | 4 | 4  | 5  | 1  | 5  | 2  | 4  |
| R15       | 5           | 5 | 1 | 1 | 4 | 4 | 5 | 1 | 3 | 4  | 3  | 2  | 3  | 3  | 4  |
| R16       | 5           | 5 | 1 | 5 | 2 | 3 | 3 | 1 | 5 | 5  | 5  | 2  | 1  | 5  | 4  |
| R17       | 3           | 4 | 2 | 2 | 3 | 3 | 5 | 1 | 4 | 3  | 5  | 3  | 2  | 4  | 4  |
| R18       | 5           | 5 | 1 | 5 | 5 | 1 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 1  | 5  |
| R19       | 4           | 4 | 2 | 2 | 3 | 3 | 4 | 2 | 3 | 4  | 3  | 2  | 4  | 3  | 3  |
| R20       | 5           | 5 | 1 | 5 | 5 | 2 | 5 | 2 | 3 | 3  | 4  | 2  | 4  | 3  | 4  |
| R21       | 3           | 3 | 5 | 5 | 3 | 3 | 3 | 1 | 1 | 2  | 4  | 5  | 1  | 2  | 1  |
| R22       | 3           | 3 | 1 | 2 | 5 | 5 | 3 | 5 | 2 | 2  | 4  | 3  | 3  | 5  | 1  |
| R23       | 4           | 5 | 3 | 3 | 1 | 2 | 1 | 5 | 1 | 1  | 5  | 1  | 4  | 5  | 5  |
| R24       | 4           | 4 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 3  | 3  | 4  | 3  | 4  | 3  |
| R25       | 3           | 1 | 2 | 2 | 5 | 3 | 4 | 4 | 2 | 3  | 1  | 2  | 1  | 4  | 5  |
| R26       | 3           | 2 | 3 | 1 | 5 | 3 | 1 | 2 | 1 | 4  | 2  | 3  | 2  | 3  | 4  |

| Responden | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R27       | 2           | 3 | 2 | 2 | 1 | 5 | 2 | 5 | 3 | 4  | 4  | 2  | 3  | 4  | 4  |
| R28       | 1           | 4 | 4 | 3 | 4 | 3 | 4 | 5 | 1 | 3  | 2  | 3  | 2  | 2  | 2  |
| R29       | 4           | 3 | 2 | 1 | 1 | 4 | 3 | 1 | 3 | 2  | 2  | 3  | 4  | 5  | 2  |
| R30       | 2           | 4 | 1 | 1 | 1 | 3 | 1 | 4 | 3 | 5  | 4  | 1  | 2  | 1  | 5  |
| R31       | 4           | 1 | 4 | 2 | 5 | 1 | 2 | 4 | 4 | 3  | 3  | 3  | 3  | 5  | 3  |
| R32       | 2           | 4 | 4 | 1 | 4 | 5 | 4 | 4 | 5 | 2  | 5  | 1  | 1  | 1  | 5  |
| R33       | 5           | 5 | 1 | 5 | 5 | 5 | 5 | 1 | 5 | 5  | 4  | 1  | 4  | 3  | 5  |
| R34       | 3           | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 4  | 4  | 1  | 4  | 3  | 4  |
| R35       | 3           | 5 | 1 | 5 | 1 | 5 | 5 | 1 | 5 | 5  | 5  | 1  | 4  | 1  | 3  |
| R36       | 5           | 5 | 1 | 1 | 5 | 2 | 5 | 3 | 3 | 3  | 3  | 2  | 3  | 3  | 3  |
| R37       | 4           | 5 | 5 | 2 | 3 | 4 | 4 | 2 | 4 | 4  | 5  | 3  | 4  | 1  | 4  |
| R38       | 5           | 1 | 3 | 3 | 2 | 1 | 1 | 5 | 2 | 5  | 4  | 2  | 3  | 2  | 2  |
| R39       | 5           | 5 | 1 | 1 | 5 | 2 | 5 | 1 | 5 | 5  | 4  | 2  | 4  | 3  | 4  |
| R40       | 4           | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 4  | 4  | 2  | 3  | 1  | 4  |
| R41       | 5           | 5 | 3 | 3 | 4 | 4 | 2 | 1 | 3 | 3  | 2  | 3  | 2  | 3  | 5  |
| R42       | 5           | 5 | 1 | 1 | 5 | 3 | 4 | 2 | 4 | 4  | 4  | 2  | 3  | 3  | 4  |
| R43       | 3           | 5 | 4 | 4 | 1 | 1 | 5 | 1 | 5 | 2  | 3  | 5  | 2  | 1  | 3  |
| R44       | 4           | 4 | 2 | 3 | 4 | 2 | 3 | 2 | 4 | 4  | 3  | 3  | 2  | 4  | 4  |
| R45       | 5           | 5 | 1 | 1 | 5 | 1 | 5 | 1 | 4 | 5  | 5  | 1  | 5  | 3  | 4  |
| R46       | 5           | 5 | 1 | 1 | 5 | 1 | 5 | 1 | 5 | 5  | 4  | 1  | 4  | 3  | 4  |
| R47       | 4           | 4 | 2 | 2 | 4 | 1 | 5 | 3 | 3 | 3  | 3  | 2  | 4  | 3  | 4  |
| R48       | 2           | 5 | 2 | 5 | 3 | 1 | 5 | 1 | 2 | 1  | 3  | 5  | 3  | 2  | 3  |
| R49       | 4           | 4 | 2 | 2 | 3 | 2 | 4 | 2 | 4 | 4  | 4  | 2  | 4  | 2  | 4  |
| R50       | 2           | 5 | 3 | 4 | 4 | 2 | 3 | 1 | 5 | 2  | 2  | 4  | 3  | 2  | 4  |
| R51       | 5           | 5 | 1 | 3 | 5 | 2 | 4 | 1 | 5 | 5  | 5  | 2  | 3  | 2  | 4  |
| R52       | 2           | 4 | 1 | 1 | 4 | 2 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 2  | 4  |
| R53       | 5           | 4 | 1 | 1 | 4 | 2 | 5 | 2 | 3 | 4  | 3  | 3  | 3  | 4  | 3  |
| R54       | 5           | 5 | 1 | 1 | 5 | 1 | 5 | 1 | 4 | 5  | 4  | 1  | 4  | 2  | 4  |
| R55       | 3           | 4 | 1 | 4 | 3 | 4 | 3 | 1 | 5 | 5  | 5  | 2  | 5  | 2  | 5  |
| R56       | 5           | 5 | 1 | 1 | 5 | 1 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 1  | 5  |

| Responden | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R57       | 5           | 5 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 5  | 4  | 3  | 4  | 2  | 3  |
| R58       | 2           | 5 | 2 | 4 | 5 | 5 | 1 | 2 | 5 | 2  | 2  | 2  | 1  | 4  | 4  |
| R59       | 5           | 5 | 1 | 2 | 5 | 2 | 5 | 1 | 4 | 4  | 5  | 2  | 4  | 1  | 4  |
| R60       | 3           | 4 | 1 | 1 | 4 | 2 | 3 | 1 | 3 | 5  | 3  | 2  | 4  | 1  | 5  |
| R61       | 4           | 5 | 1 | 2 | 5 | 2 | 4 | 2 | 4 | 3  | 5  | 2  | 3  | 3  | 4  |
| R62       | 4           | 3 | 1 | 2 | 4 | 4 | 5 | 1 | 5 | 4  | 4  | 1  | 4  | 1  | 4  |
| R63       | 5           | 3 | 2 | 3 | 3 | 5 | 4 | 2 | 4 | 5  | 4  | 2  | 5  | 1  | 5  |
| R64       | 3           | 4 | 5 | 2 | 4 | 4 | 3 | 2 | 3 | 4  | 5  | 2  | 4  | 1  | 4  |
| R65       | 4           | 2 | 5 | 3 | 4 | 5 | 4 | 1 | 4 | 5  | 4  | 1  | 3  | 2  | 3  |
| R66       | 5           | 4 | 1 | 3 | 5 | 4 | 4 | 1 | 4 | 4  | 3  | 2  | 4  | 1  | 4  |
| R67       | 3           | 4 | 1 | 2 | 3 | 2 | 5 | 2 | 3 | 5  | 4  | 1  | 4  | 2  | 4  |
| R68       | 4           | 5 | 1 | 1 | 2 | 3 | 4 | 2 | 2 | 3  | 4  | 1  | 5  | 1  | 3  |
| R69       | 5           | 3 | 5 | 2 | 2 | 4 | 4 | 1 | 4 | 4  | 5  | 2  | 4  | 2  | 2  |
| R70       | 3           | 4 | 1 | 2 | 3 | 4 | 3 | 1 | 3 | 5  | 4  | 1  | 5  | 1  | 4  |
| R71       | 4           | 5 | 1 | 1 | 2 | 3 | 3 | 1 | 4 | 4  | 2  | 2  | 2  | 2  | 5  |
| R72       | 4           | 5 | 5 | 2 | 1 | 4 | 3 | 2 | 5 | 5  | 4  | 2  | 3  | 2  | 4  |
| R73       | 5           | 3 | 1 | 3 | 3 | 4 | 4 | 1 | 5 | 4  | 3  | 1  | 4  | 1  | 5  |
| R74       | 3           | 4 | 1 | 1 | 3 | 3 | 2 | 2 | 3 | 4  | 4  | 2  | 4  | 2  | 4  |
| R75       | 4           | 4 | 1 | 2 | 3 | 4 | 3 | 1 | 3 | 5  | 4  | 1  | 5  | 1  | 3  |
| R76       | 5           | 5 | 5 | 1 | 4 | 4 | 5 | 2 | 4 | 2  | 5  | 2  | 4  | 2  | 4  |
| R77       | 3           | 4 | 5 | 2 | 4 | 5 | 3 | 1 | 5 | 3  | 4  | 1  | 3  | 1  | 4  |
| R78       | 3           | 3 | 1 | 2 | 5 | 5 | 4 | 2 | 4 | 3  | 4  | 1  | 3  | 2  | 3  |
| R79       | 4           | 4 | 5 | 1 | 3 | 4 | 4 | 1 | 4 | 4  | 3  | 2  | 4  | 2  | 4  |
| R80       | 4           | 3 | 1 | 1 | 4 | 4 | 2 | 1 | 5 | 3  | 4  | 2  | 3  | 1  | 3  |
| R81       | 5           | 3 | 5 | 2 | 5 | 4 | 4 | 2 | 3 | 4  | 4  | 2  | 4  | 2  | 3  |
| R82       | 4           | 4 | 1 | 1 | 4 | 3 | 3 | 2 | 5 | 3  | 5  | 1  | 3  | 2  | 4  |
| R83       | 5           | 5 | 1 | 2 | 3 | 3 | 2 | 1 | 3 | 3  | 4  | 2  | 5  | 2  | 3  |
| R84       | 4           | 5 | 1 | 1 | 4 | 2 | 5 | 1 | 4 | 4  | 5  | 1  | 4  | 1  | 4  |
| R85       | 4           | 4 | 1 | 1 | 3 | 2 | 4 | 2 | 5 | 3  | 4  | 2  | 4  | 2  | 4  |
| R86       | 3           | 4 | 2 | 2 | 3 | 3 | 5 | 1 | 3 | 4  | 3  | 1  | 5  | 1  | 5  |

| Responden | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R87       | 4           | 5 | 5 | 3 | 4 | 1 | 4 | 2 | 2 | 3  | 4  | 2  | 5  | 1  | 5  |
| R88       | 3           | 4 | 1 | 1 | 3 | 2 | 4 | 1 | 3 | 4  | 5  | 1  | 4  | 1  | 4  |
| R89       | 5           | 3 | 5 | 3 | 3 | 3 | 2 | 2 | 5 | 5  | 4  | 1  | 4  | 2  | 3  |
| R90       | 4           | 3 | 1 | 2 | 4 | 4 | 5 | 1 | 3 | 5  | 3  | 1  | 3  | 2  | 4  |
| R91       | 2           | 4 | 1 | 3 | 5 | 5 | 4 | 1 | 5 | 3  | 4  | 1  | 4  | 1  | 4  |
| R92       | 3           | 3 | 1 | 2 | 3 | 4 | 4 | 2 | 4 | 5  | 1  | 2  | 5  | 1  | 3  |
| R93       | 4           | 3 | 2 | 3 | 3 | 4 | 2 | 1 | 4 | 4  | 2  | 1  | 4  | 1  | 4  |
| R94       | 5           | 2 | 2 | 1 | 5 | 5 | 4 | 2 | 5 | 3  | 4  | 2  | 5  | 2  | 5  |
| R95       | 5           | 4 | 3 | 1 | 3 | 5 | 4 | 1 | 5 | 4  | 3  | 1  | 5  | 1  | 4  |
| R96       | 3           | 3 | 3 | 1 | 2 | 5 | 4 | 1 | 4 | 4  | 3  | 2  | 4  | 1  | 4  |
| R97       | 3           | 4 | 1 | 2 | 4 | 5 | 3 | 2 | 3 | 3  | 5  | 2  | 3  | 1  | 3  |
| R98       | 3           | 5 | 5 | 2 | 4 | 5 | 4 | 1 | 4 | 4  | 4  | 2  | 4  | 2  | 4  |
| R99       | 4           | 4 | 3 | 2 | 5 | 4 | 4 | 1 | 4 | 5  | 4  | 2  | 4  | 2  | 4  |
| R100      | 5           | 3 | 1 | 1 | 4 | 3 | 4 | 1 | 5 | 4  | 4  | 1  | 3  | 1  | 3  |
| R101      | 4           | 4 | 1 | 2 | 3 | 5 | 3 | 2 | 4 | 4  | 5  | 1  | 4  | 1  | 4  |
| R102      | 4           | 3 | 2 | 1 | 4 | 5 | 4 | 1 | 4 | 3  | 4  | 1  | 5  | 2  | 5  |
| R103      | 5           | 4 | 3 | 2 | 3 | 4 | 5 | 2 | 5 | 5  | 4  | 2  | 4  | 2  | 5  |
| R104      | 4           | 3 | 2 | 1 | 3 | 4 | 5 | 1 | 4 | 4  | 5  | 1  | 3  | 1  | 4  |
| R105      | 5           | 5 | 5 | 2 | 4 | 5 | 3 | 2 | 4 | 3  | 5  | 2  | 3  | 2  | 5  |
| R106      | 1           | 4 | 5 | 1 | 3 | 5 | 4 | 1 | 5 | 4  | 4  | 2  | 2  | 1  | 4  |
| R107      | 2           | 3 | 5 | 2 | 4 | 4 | 5 | 1 | 4 | 5  | 4  | 1  | 3  | 2  | 4  |
| R108      | 3           | 4 | 2 | 1 | 5 | 4 | 5 | 2 | 5 | 4  | 3  | 2  | 4  | 1  | 4  |
| R109      | 4           | 5 | 1 | 2 | 3 | 5 | 3 | 1 | 4 | 3  | 4  | 1  | 5  | 2  | 4  |
| R110      | 4           | 3 | 5 | 1 | 4 | 4 | 5 | 2 | 3 | 4  | 5  | 2  | 5  | 3  | 4  |
| R111      | 5           | 4 | 2 | 2 | 3 | 4 | 5 | 1 | 4 | 4  | 4  | 1  | 4  | 3  | 5  |
| R112      | 4           | 5 | 3 | 2 | 3 | 5 | 5 | 1 | 5 | 5  | 4  | 2  | 3  | 1  | 4  |
| R113      | 3           | 5 | 1 | 2 | 4 | 2 | 4 | 2 | 4 | 5  | 5  | 1  | 4  | 2  | 4  |
| R114      | 2           | 4 | 2 | 3 | 3 | 1 | 5 | 1 | 5 | 4  | 4  | 2  | 3  | 1  | 5  |
| R115      | 3           | 3 | 1 | 1 | 4 | 2 | 3 | 2 | 4 | 3  | 3  | 1  | 4  | 1  | 4  |
| R116      | 4           | 3 | 2 | 1 | 5 | 2 | 4 | 1 | 4 | 4  | 2  | 2  | 5  | 1  | 5  |



| Responden   | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-------------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|             | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| <b>R117</b> | 2           | 2 | 3 | 2 | 4 | 3 | 5 | 1 | 3 | 3  | 3  | 1  | 4  | 2  | 4  |
| <b>R118</b> | 2           | 5 | 1 | 3 | 3 | 3 | 4 | 2 | 4 | 4  | 4  | 2  | 4  | 1  | 5  |
| <b>R119</b> | 3           | 5 | 5 | 1 | 3 | 4 | 5 | 1 | 3 | 3  | 3  | 1  | 5  | 2  | 4  |
| <b>R120</b> | 4           | 1 | 1 | 2 | 3 | 3 | 4 | 2 | 3 | 4  | 4  | 2  | 4  | 3  | 3  |

| Responden  | Nomor Butir |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|            | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |       |
| <b>R1</b>  | 5           | 5  | 1  | 5  | 1  | 5  | 2  | 4  | 5  | 5  | 2  | 5  | 4  | 5  | 5  | 119   |
| <b>R2</b>  | 4           | 4  | 1  | 5  | 1  | 5  | 1  | 2  | 5  | 5  | 5  | 4  | 4  | 5  | 4  | 112   |
| <b>R3</b>  | 5           | 5  | 1  | 5  | 1  | 5  | 1  | 4  | 3  | 5  | 5  | 5  | 5  | 5  | 3  | 117   |
| <b>R4</b>  | 5           | 5  | 2  | 5  | 1  | 5  | 1  | 4  | 5  | 5  | 4  | 5  | 5  | 5  | 5  | 119   |
| <b>R5</b>  | 3           | 5  | 3  | 3  | 1  | 3  | 3  | 5  | 3  | 3  | 4  | 5  | 3  | 5  | 3  | 106   |
| <b>R6</b>  | 5           | 5  | 3  | 4  | 1  | 4  | 3  | 5  | 3  | 3  | 5  | 4  | 4  | 4  | 3  | 109   |
| <b>R7</b>  | 4           | 4  | 3  | 4  | 3  | 3  | 3  | 5  | 3  | 3  | 3  | 2  | 3  | 3  | 3  | 101   |
| <b>R8</b>  | 5           | 5  | 2  | 4  | 2  | 4  | 3  | 5  | 3  | 3  | 3  | 5  | 3  | 4  | 4  | 115   |
| <b>R9</b>  | 4           | 4  | 2  | 4  | 2  | 4  | 2  | 5  | 4  | 3  | 3  | 4  | 4  | 4  | 3  | 104   |
| <b>R10</b> | 3           | 4  | 3  | 4  | 2  | 4  | 3  | 5  | 3  | 3  | 3  | 4  | 3  | 4  | 3  | 100   |
| <b>R11</b> | 4           | 4  | 2  | 4  | 2  | 4  | 3  | 2  | 4  | 3  | 4  | 4  | 5  | 5  | 4  | 106   |
| <b>R12</b> | 3           | 5  | 2  | 4  | 2  | 4  | 3  | 5  | 3  | 2  | 4  | 4  | 4  | 4  | 3  | 104   |
| <b>R13</b> | 3           | 5  | 1  | 5  | 1  | 5  | 1  | 3  | 1  | 3  | 4  | 5  | 3  | 5  | 1  | 94    |
| <b>R14</b> | 5           | 5  | 1  | 5  | 1  | 5  | 2  | 4  | 5  | 5  | 5  | 5  | 4  | 5  | 5  | 111   |
| <b>R15</b> | 5           | 5  | 1  | 5  | 1  | 4  | 3  | 5  | 3  | 4  | 4  | 3  | 1  | 5  | 5  | 102   |
| <b>R16</b> | 4           | 4  | 2  | 4  | 4  | 3  | 3  | 5  | 2  | 4  | 4  | 4  | 3  | 4  | 3  | 105   |
| <b>R17</b> | 5           | 5  | 2  | 4  | 1  | 4  | 4  | 1  | 4  | 4  | 5  | 4  | 4  | 5  | 5  | 105   |
| <b>R18</b> | 5           | 5  | 1  | 5  | 4  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 1  | 5  | 5  | 121   |
| <b>R19</b> | 4           | 4  | 3  | 4  | 2  | 3  | 4  | 2  | 2  | 2  | 4  | 3  | 3  | 4  | 2  | 92    |
| <b>R20</b> | 5           | 5  | 1  | 4  | 2  | 4  | 3  | 2  | 3  | 3  | 4  | 5  | 2  | 5  | 3  | 104   |
| <b>R21</b> | 4           | 4  | 2  | 1  | 2  | 2  | 1  | 1  | 3  | 2  | 2  | 3  | 5  | 5  | 2  | 81    |
| <b>R22</b> | 3           | 2  | 4  | 2  | 2  | 3  | 1  | 3  | 1  | 4  | 1  | 1  | 5  | 3  | 3  | 85    |
| <b>R23</b> | 3           | 3  | 1  | 2  | 2  | 3  | 2  | 1  | 5  | 3  | 3  | 3  | 1  | 5  | 1  | 84    |
| <b>R24</b> | 3           | 3  | 1  | 1  | 3  | 5  | 4  | 1  | 2  | 4  | 2  | 4  | 2  | 2  | 2  | 78    |

| Responden | Nomor Butir |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|-----------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|           | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |       |
| R25       | 4           | 4  | 1  | 3  | 4  | 1  | 5  | 3  | 4  | 2  | 1  | 2  | 2  | 1  | 5  | 84    |
| R26       | 3           | 5  | 2  | 3  | 5  | 5  | 5  | 1  | 5  | 3  | 2  | 3  | 1  | 5  | 4  | 91    |
| R27       | 3           | 2  | 1  | 5  | 1  | 4  | 1  | 4  | 5  | 5  | 5  | 1  | 2  | 3  | 2  | 90    |
| R28       | 5           | 3  | 3  | 2  | 5  | 1  | 5  | 4  | 1  | 4  | 4  | 3  | 5  | 5  | 2  | 95    |
| R29       | 5           | 1  | 2  | 2  | 1  | 4  | 2  | 1  | 4  | 5  | 4  | 5  | 4  | 2  | 5  | 87    |
| R30       | 2           | 1  | 3  | 4  | 1  | 3  | 3  | 5  | 5  | 2  | 3  | 1  | 4  | 2  | 5  | 82    |
| R31       | 4           | 1  | 2  | 1  | 1  | 2  | 5  | 1  | 2  | 2  | 5  | 5  | 2  | 2  | 2  | 84    |
| R32       | 4           | 3  | 4  | 5  | 2  | 4  | 1  | 5  | 2  | 5  | 4  | 3  | 3  | 1  | 1  | 95    |
| R33       | 5           | 5  | 5  | 5  | 1  | 5  | 2  | 1  | 5  | 4  | 5  | 5  | 4  | 4  | 4  | 119   |
| R34       | 4           | 5  | 2  | 5  | 1  | 5  | 2  | 1  | 4  | 4  | 4  | 5  | 2  | 4  | 4  | 99    |
| R35       | 4           | 3  | 5  | 4  | 3  | 4  | 5  | 3  | 4  | 5  | 4  | 5  | 5  | 5  | 4  | 113   |
| R36       | 4           | 5  | 1  | 4  | 1  | 4  | 4  | 2  | 3  | 3  | 5  | 5  | 2  | 5  | 1  | 96    |
| R37       | 3           | 5  | 5  | 5  | 1  | 4  | 4  | 3  | 3  | 3  | 4  | 4  | 2  | 4  | 3  | 107   |
| R38       | 1           | 3  | 1  | 5  | 1  | 5  | 3  | 5  | 2  | 3  | 4  | 5  | 4  | 1  | 4  | 88    |
| R39       | 5           | 5  | 4  | 5  | 5  | 5  | 3  | 1  | 3  | 3  | 5  | 5  | 4  | 5  | 4  | 114   |
| R40       | 4           | 3  | 2  | 5  | 5  | 4  | 4  | 2  | 3  | 3  | 4  | 3  | 3  | 2  | 3  | 96    |
| R41       | 4           | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 2  | 2  | 5  | 5  | 4  | 4  | 2  | 99    |
| R42       | 5           | 5  | 2  | 4  | 5  | 5  | 3  | 1  | 4  | 4  | 4  | 5  | 4  | 4  | 4  | 109   |
| R43       | 1           | 1  | 4  | 5  | 1  | 2  | 2  | 5  | 2  | 4  | 5  | 5  | 3  | 5  | 1  | 91    |
| R44       | 4           | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 2  | 98    |
| R45       | 4           | 4  | 2  | 5  | 4  | 3  | 2  | 3  | 3  | 4  | 4  | 5  | 4  | 5  | 3  | 106   |
| R46       | 4           | 5  | 2  | 5  | 1  | 5  | 2  | 1  | 4  | 4  | 4  | 5  | 2  | 4  | 4  | 102   |
| R47       | 4           | 4  | 2  | 3  | 2  | 4  | 4  | 3  | 3  | 3  | 3  | 4  | 2  | 4  | 3  | 95    |
| R48       | 2           | 3  | 1  | 4  | 4  | 3  | 3  | 4  | 1  | 2  | 4  | 3  | 5  | 5  | 3  | 90    |
| R49       | 4           | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 3  | 4  | 4  | 4  | 3  | 4  | 4  | 99    |
| R50       | 2           | 4  | 3  | 3  | 3  | 4  | 4  | 3  | 2  | 3  | 3  | 2  | 4  | 3  | 4  | 93    |
| R51       | 5           | 5  | 5  | 5  | 3  | 4  | 2  | 3  | 3  | 4  | 4  | 5  | 4  | 5  | 3  | 112   |
| R52       | 4           | 4  | 2  | 5  | 5  | 4  | 5  | 2  | 5  | 4  | 5  | 4  | 2  | 5  | 4  | 107   |
| R53       | 4           | 5  | 1  | 5  | 4  | 4  | 3  | 3  | 3  | 3  | 3  | 4  | 1  | 4  | 4  | 98    |
| R54       | 4           | 5  | 2  | 4  | 1  | 5  | 4  | 2  | 4  | 4  | 4  | 4  | 2  | 5  | 4  | 102   |
| R55       | 4           | 5  | 1  | 4  | 4  | 4  | 5  | 2  | 3  | 4  | 5  | 4  | 2  | 5  | 4  | 108   |

| Responden | Nomor Butir |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|-----------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|           | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |       |
| R56       | 5           | 5  | 1  | 5  | 5  | 5  | 2  | 1  | 5  | 4  | 5  | 5  | 4  | 4  | 4  | 111   |
| R57       | 3           | 4  | 3  | 5  | 1  | 4  | 5  | 3  | 1  | 1  | 4  | 1  | 5  | 5  | 1  | 102   |
| R58       | 3           | 2  | 1  | 4  | 5  | 5  | 5  | 2  | 4  | 5  | 5  | 5  | 2  | 4  | 2  | 100   |
| R59       | 5           | 3  | 2  | 3  | 5  | 5  | 5  | 1  | 3  | 3  | 3  | 5  | 4  | 4  | 3  | 104   |
| R60       | 5           | 5  | 2  | 3  | 2  | 4  | 4  | 2  | 4  | 4  | 5  | 5  | 1  | 3  | 4  | 95    |
| R61       | 3           | 4  | 3  | 4  | 1  | 4  | 5  | 2  | 3  | 3  | 3  | 4  | 4  | 4  | 3  | 99    |
| R62       | 4           | 5  | 1  | 5  | 2  | 3  | 4  | 2  | 5  | 4  | 5  | 4  | 1  | 5  | 4  | 101   |
| R63       | 5           | 5  | 2  | 4  | 5  | 4  | 5  | 1  | 4  | 4  | 4  | 5  | 2  | 4  | 5  | 112   |
| R64       | 4           | 4  | 1  | 3  | 2  | 3  | 4  | 2  | 5  | 5  | 4  | 5  | 1  | 5  | 4  | 102   |
| R65       | 3           | 4  | 5  | 4  | 5  | 4  | 5  | 3  | 4  | 4  | 5  | 5  | 2  | 4  | 5  | 112   |
| R66       | 4           | 5  | 2  | 4  | 5  | 5  | 4  | 1  | 3  | 3  | 5  | 4  | 1  | 4  | 4  | 103   |
| R67       | 5           | 5  | 2  | 3  | 2  | 4  | 2  | 2  | 4  | 4  | 4  | 4  | 3  | 1  | 3  | 92    |
| R68       | 4           | 3  | 2  | 4  | 1  | 3  | 4  | 2  | 3  | 5  | 3  | 4  | 2  | 4  | 3  | 88    |
| R69       | 5           | 2  | 1  | 5  | 2  | 4  | 5  | 1  | 4  | 4  | 3  | 4  | 2  | 5  | 4  | 100   |
| R70       | 4           | 3  | 1  | 3  | 5  | 5  | 1  | 2  | 5  | 3  | 3  | 3  | 2  | 5  | 5  | 94    |
| R71       | 3           | 4  | 1  | 3  | 2  | 4  | 1  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 5  | 86    |
| R72       | 4           | 4  | 5  | 3  | 5  | 3  | 5  | 2  | 3  | 4  | 5  | 5  | 1  | 3  | 4  | 107   |
| R73       | 4           | 5  | 1  | 4  | 5  | 2  | 4  | 2  | 2  | 5  | 5  | 4  | 1  | 4  | 4  | 99    |
| R74       | 5           | 4  | 1  | 4  | 1  | 3  | 1  | 2  | 3  | 4  | 4  | 3  | 1  | 3  | 3  | 84    |
| R75       | 4           | 4  | 1  | 4  | 1  | 4  | 4  | 1  | 4  | 5  | 3  | 4  | 2  | 3  | 4  | 92    |
| R76       | 4           | 5  | 5  | 4  | 2  | 4  | 5  | 1  | 4  | 3  | 3  | 4  | 1  | 4  | 4  | 107   |
| R77       | 5           | 3  | 2  | 4  | 5  | 5  | 5  | 1  | 4  | 4  | 4  | 5  | 1  | 4  | 5  | 105   |
| R78       | 4           | 2  | 1  | 5  | 5  | 4  | 4  | 2  | 4  | 3  | 5  | 5  | 1  | 5  | 4  | 99    |
| R79       | 4           | 4  | 2  | 5  | 1  | 4  | 5  | 2  | 4  | 4  | 5  | 4  | 2  | 4  | 5  | 104   |
| R80       | 4           | 4  | 1  | 5  | 2  | 4  | 4  | 2  | 5  | 5  | 4  | 3  | 1  | 3  | 4  | 92    |
| R81       | 5           | 5  | 2  | 3  | 1  | 3  | 5  | 1  | 4  | 5  | 3  | 3  | 1  | 2  | 5  | 100   |
| R82       | 5           | 4  | 1  | 3  | 1  | 4  | 2  | 1  | 4  | 4  | 3  | 4  | 1  | 3  | 4  | 89    |
| R83       | 4           | 3  | 2  | 3  | 2  | 4  | 3  | 1  | 5  | 4  | 4  | 3  | 2  | 4  | 3  | 91    |
| R84       | 2           | 4  | 2  | 4  | 1  | 4  | 4  | 1  | 3  | 4  | 4  | 4  | 1  | 5  | 3  | 92    |
| R85       | 3           | 2  | 2  | 4  | 1  | 5  | 5  | 2  | 5  | 3  | 5  | 3  | 1  | 4  | 4  | 94    |
| R86       | 4           | 1  | 1  | 4  | 1  | 5  | 4  | 1  | 3  | 5  | 3  | 4  | 1  | 3  | 5  | 90    |

| Responden   | Nomor Butir |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|-------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|             | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |       |
| <b>R87</b>  | 5           | 2  | 2  | 4  | 2  | 4  | 5  | 2  | 4  | 3  | 4  | 3  | 2  | 4  | 4  | 100   |
| <b>R88</b>  | 4           | 3  | 2  | 5  | 1  | 3  | 1  | 1  | 4  | 4  | 5  | 4  | 1  | 5  | 3  | 87    |
| <b>R89</b>  | 5           | 4  | 2  | 4  | 1  | 4  | 5  | 1  | 5  | 3  | 4  | 5  | 1  | 4  | 4  | 102   |
| <b>R90</b>  | 4           | 4  | 1  | 3  | 2  | 5  | 4  | 2  | 4  | 5  | 4  | 4  | 1  | 4  | 4  | 96    |
| <b>R91</b>  | 3           | 5  | 2  | 4  | 1  | 3  | 3  | 1  | 5  | 2  | 4  | 3  | 2  | 5  | 5  | 95    |
| <b>R92</b>  | 4           | 4  | 1  | 4  | 1  | 4  | 2  | 1  | 4  | 3  | 5  | 4  | 1  | 5  | 4  | 90    |
| <b>R93</b>  | 5           | 3  | 2  | 5  | 2  | 4  | 5  | 1  | 5  | 4  | 3  | 5  | 1  | 3  | 3  | 93    |
| <b>R94</b>  | 4           | 3  | 1  | 4  | 1  | 3  | 5  | 2  | 4  | 4  | 3  | 5  | 2  | 3  | 4  | 100   |
| <b>R95</b>  | 2           | 4  | 2  | 5  | 2  | 4  | 2  | 2  | 3  | 5  | 4  | 4  | 1  | 3  | 2  | 94    |
| <b>R96</b>  | 5           | 4  | 2  | 4  | 1  | 4  | 4  | 1  | 4  | 3  | 4  | 5  | 1  | 3  | 3  | 92    |
| <b>R97</b>  | 2           | 5  | 2  | 4  | 1  | 4  | 2  | 1  | 3  | 3  | 5  | 4  | 2  | 3  | 4  | 89    |
| <b>R98</b>  | 4           | 4  | 2  | 4  | 2  | 5  | 5  | 1  | 5  | 4  | 4  | 3  | 1  | 4  | 4  | 105   |
| <b>R99</b>  | 4           | 4  | 1  | 3  | 1  | 4  | 4  | 2  | 3  | 5  | 3  | 4  | 1  | 5  | 3  | 99    |
| <b>R100</b> | 5           | 3  | 1  | 3  | 1  | 4  | 1  | 2  | 5  | 4  | 2  | 5  | 2  | 5  | 5  | 91    |
| <b>R101</b> | 4           | 4  | 1  | 4  | 1  | 5  | 3  | 1  | 4  | 5  | 3  | 4  | 1  | 4  | 4  | 95    |
| <b>R102</b> | 4           | 4  | 2  | 5  | 2  | 5  | 4  | 1  | 4  | 3  | 4  | 4  | 1  | 5  | 5  | 101   |
| <b>R103</b> | 5           | 5  | 2  | 4  | 1  | 5  | 4  | 2  | 4  | 4  | 4  | 3  | 1  | 4  | 4  | 107   |
| <b>R104</b> | 4           | 4  | 1  | 3  | 2  | 4  | 5  | 1  | 3  | 5  | 5  | 4  | 2  | 5  | 5  | 98    |
| <b>R105</b> | 5           | 4  | 1  | 3  | 1  | 4  | 4  | 1  | 4  | 4  | 4  | 4  | 1  | 3  | 4  | 102   |
| <b>R106</b> | 5           | 5  | 1  | 4  | 1  | 3  | 5  | 1  | 5  | 5  | 5  | 5  | 2  | 4  | 4  | 101   |
| <b>R107</b> | 4           | 5  | 2  | 5  | 2  | 4  | 5  | 1  | 4  | 3  | 3  | 4  | 3  | 5  | 4  | 103   |
| <b>R108</b> | 5           | 4  | 1  | 5  | 1  | 5  | 5  | 2  | 3  | 5  | 4  | 5  | 3  | 4  | 5  | 106   |
| <b>R109</b> | 4           | 4  | 1  | 5  | 1  | 5  | 1  | 2  | 2  | 3  | 3  | 4  | 1  | 4  | 5  | 92    |
| <b>R110</b> | 3           | 5  | 1  | 5  | 1  | 4  | 5  | 1  | 3  | 4  | 3  | 5  | 1  | 4  | 4  | 103   |
| <b>R111</b> | 3           | 5  | 4  | 4  | 2  | 3  | 5  | 1  | 5  | 4  | 2  | 4  | 2  | 4  | 3  | 102   |
| <b>R112</b> | 4           | 4  | 5  | 4  | 1  | 2  | 4  | 1  | 4  | 5  | 2  | 3  | 3  | 5  | 4  | 103   |
| <b>R113</b> | 3           | 4  | 3  | 4  | 1  | 3  | 4  | 1  | 5  | 5  | 4  | 4  | 2  | 5  | 3  | 99    |
| <b>R114</b> | 4           | 5  | 1  | 4  | 1  | 4  | 4  | 1  | 4  | 4  | 3  | 5  | 1  | 4  | 2  | 92    |
| <b>R115</b> | 4           | 4  | 2  | 3  | 2  | 5  | 3  | 1  | 4  | 3  | 4  | 4  | 2  | 3  | 3  | 86    |
| <b>R116</b> | 3           | 4  | 1  | 4  | 1  | 4  | 2  | 2  | 5  | 3  | 4  | 5  | 2  | 3  | 4  | 92    |
| <b>R117</b> | 3           | 5  | 1  | 5  | 1  | 5  | 3  | 2  | 4  | 2  | 5  | 4  | 3  | 4  | 5  | 94    |

| Responden   | Nomor Butir |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|-------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|             | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |       |
| <b>R118</b> | 4           | 4  | 1  | 5  | 1  | 4  | 2  | 2  | 5  | 3  | 5  | 3  | 2  | 2  | 4  | 94    |
| <b>R119</b> | 4           | 3  | 2  | 4  | 2  | 4  | 5  | 2  | 5  | 4  | 4  | 4  | 2  | 3  | 5  | 101   |
| <b>R120</b> | 3           | 2  | 3  | 4  | 1  | 3  | 1  | 1  | 4  | 4  | 4  | 5  | 2  | 4  | 5  | 89    |



## Lampiran 9

## OUTPUT SPSS STATISTIK UNTUK ANALISIS KONSISTENSI

A. INTERNAL BUTIR DAN REALIBILITAS KUESIONER  
KEDISIPLINAN SISWA

## Analisis Konsisten Internal Butir Kuesioner

| Correlations  |                     |         |
|---------------|---------------------|---------|
|               |                     | Total   |
| Pernyataan_1  | Pearson Correlation | .391**  |
|               | Sig. (2-tailed)     | .000    |
|               | N                   | 120     |
| Pernyataan_2  | Pearson Correlation | .389**  |
|               | Sig. (2-tailed)     | .000    |
|               | N                   | 120     |
| Pernyataan_3  | Pearson Correlation | .194*   |
|               | Sig. (2-tailed)     | .034    |
|               | N                   | 120     |
| Pernyataan_4  | Pearson Correlation | .331**  |
|               | Sig. (2-tailed)     | .000    |
|               | N                   | 120     |
| Pernyataan_5  | Pearson Correlation | .374**  |
|               | Sig. (2-tailed)     | .000    |
|               | N                   | 120     |
| Pernyataan_6  | Pearson Correlation | .231*   |
|               | Sig. (2-tailed)     | .011    |
|               | N                   | 120     |
| Pernyataan_7  | Pearson Correlation | .488**  |
|               | Sig. (2-tailed)     | .000    |
|               | N                   | 120     |
| Pernyataan_8  | Pearson Correlation | -.346** |
|               | Sig. (2-tailed)     | .000    |
|               | N                   | 120     |
| Pernyataan_9  | Pearson Correlation | .540**  |
|               | Sig. (2-tailed)     | .000    |
|               | N                   | 120     |
| Pernyataan_10 | Pearson Correlation | .459**  |
|               | Sig. (2-tailed)     | .000    |
|               | N                   | 120     |
| Pernyataan_11 | Pearson Correlation | .386**  |
|               | Sig. (2-tailed)     | .000    |
|               | N                   | 120     |
| Pernyataan_12 | Pearson Correlation | -.240** |
|               | Sig. (2-tailed)     | .008    |
|               | N                   | 120     |
| Pernyataan_13 | Pearson Correlation | .267**  |
|               | Sig. (2-tailed)     | .003    |
|               | N                   | 120     |
| Pernyataan_14 | Pearson Correlation | -.065   |
|               | Sig. (2-tailed)     | .479    |
|               | N                   | 120     |
| Pernyataan_15 | Pearson Correlation | .285**  |
|               | Sig. (2-tailed)     | .002    |
|               | N                   | 120     |
| Pernyataan_16 | Pearson Correlation | .424**  |
|               | Sig. (2-tailed)     | .000    |



| Correlations   |                     |        |
|--|---------------------|--------|
|  |                     | Total  |
|  | N                   | 120    |
| Pernyataan_17  | Pearson Correlation | .498** |
|  | Sig. (2-tailed)     | .000   |
|  | N                   | 120    |
| Pernyataan_18  | Pearson Correlation | .249** |
|  | Sig. (2-tailed)     | .006   |
|  | N                   | 120    |
| Pernyataan_19  | Pearson Correlation | .466** |
|  | Sig. (2-tailed)     | .000   |
|  | N                   | 120    |
| Pernyataan_20  | Pearson Correlation | .212*  |
|  | Sig. (2-tailed)     | .020   |
|  | N                   | 120    |
| Pernyataan_21  | Pearson Correlation | .331** |
|  | Sig. (2-tailed)     | .000   |
|  | N                   | 120    |
| Pernyataan_22  | Pearson Correlation | .184*  |
|  | Sig. (2-tailed)     | .045   |
|  | N                   | 120    |
| Pernyataan_23  | Pearson Correlation | .213*  |
|  | Sig. (2-tailed)     | .020   |
|  | N                   | 120    |
| Pernyataan_24  | Pearson Correlation | .184*  |
|  | Sig. (2-tailed)     | .044   |
|  | N                   | 120    |
| Pernyataan_25  | Pearson Correlation | .265** |
|  | Sig. (2-tailed)     | .003   |
|  | N                   | 120    |
| Pernyataan_26  | Pearson Correlation | .296** |
|  | Sig. (2-tailed)     | .001   |
|  | N                   | 120    |
| Pernyataan_27  | Pearson Correlation | .410** |
|  | Sig. (2-tailed)     | .000   |
|  | N                   | 120    |
| Pernyataan_28  | Pearson Correlation | .256** |
|  | Sig. (2-tailed)     | .005   |
|  | N                   | 120    |
| Pernyataan_29  | Pearson Correlation | .430** |
|  | Sig. (2-tailed)     | .000   |
|  | N                   | 120    |
| Pernyataan_30  | Pearson Correlation | .269** |
|  | Sig. (2-tailed)     | .003   |
|  | N                   | 120    |
| **. Correlation is significant at the 0.01 level (2-tailed). |                     |        |
| *. Correlation is significant at the 0.05 level (2-tailed).  |                     |        |

## B. Analisis Reliabilitas Kuesioner

Analisis reliabilitas kuesioner kedisiplinan menggunakan *IBM SPSS*

*Statistic Version 26* dengan hasil yang diperoleh sebagai berikut.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| 0,669                  | 30         |

Nilai dari *Cronbach's Alpha* sebesar 0,669 ( $0,669 > 0,60$ ) menunjukkan bahwa kuesioner kedisiplinan yang diuji memiliki reliabilitas yang tinggi (*reliable*) (sujerweni,2004). Hasil ini menunjukkan bahwa kuesioner kedisiplinan sudah lolos uji reliabilitas dan dinyatakan layak digunakan untuk pengambilan data penelitian.



## Lampiran 10

**REKAPITULASI ANALISIS HASIL UJI COBA  
KUESIONER KEDISIPLINAN**

**A. Analisis Konsistensi Internal Butir**

Berikut tabel analisis internal butir kuesioner kedisiplinan dengan responden berjumlah 120 siswa dan taraf signifikansi 0,05 dengan  $dk = n - 2$

| No. Butir | Nilai r hitung ( $r_{xy}$ ) | Nilai r tabel ( $r_{tabel}$ ) | Keterangan           | Kualifikasi | Keputusan |
|-----------|-----------------------------|-------------------------------|----------------------|-------------|-----------|
| 1         | 0,391                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 2         | 0,389                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 3         | 0,194                       | 0,1793                        | $r_{xy} < r_{tabel}$ | Valid       | Diterima  |
| 4         | 0,331                       | 0,1793                        | $r_{xy} < r_{tabel}$ | Valid       | Diterima  |
| 5         | 0,374                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 6         | 0,231                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 7         | 0,488                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 8         | -0,346                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Tidak Valid | Ditolak   |
| 9         | 0,540                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 10        | 0,459                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 11        | 0,386                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 12        | -0,240                      | 0,1793                        | $r_{xy} > r_{tabel}$ | Tidak Valid | Ditolak   |
| 13        | 0,267                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 14        | -0,065                      | 0,1793                        | $r_{xy} < r_{tabel}$ | Tidak Valid | Ditolak   |
| 15        | 0,285                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 16        | 0,424                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 17        | 0,498                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 18        | 0,249                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 19        | 0,466                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 20        | 0,212                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 21        | 0,331                       | 0,1793                        | $r_{xy} < r_{tabel}$ | Valid       | Diterima  |
| 22        | 0,184                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 23        | 0,213                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 24        | 0,184                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 25        | 0,265                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 26        | 0,296                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 27        | 0,410                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 28        | 0,256                       | 0,1793                        | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |

|    |       |        |                      |       |          |
|----|-------|--------|----------------------|-------|----------|
| 29 | 0,430 | 0,1793 | $r_{xy} > r_{tabel}$ | Valid | Diterima |
| 30 | 0,269 | 0,1793 | $r_{xy} > r_{tabel}$ | Valid | Diterima |

#### Kriteria Konsisten Internal Butir

| Keterangan           | Kualifikasi | Keputusan |
|----------------------|-------------|-----------|
| $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| $r_{xy} < r_{tabel}$ | Tidak Valid | Ditolak   |

Berdasarkan hasil analisis konsistensi internal butir kuesioner kedisiplinan, butir kuesioner yang diterima sejumlah 32 butir dan butir kuesioner yang gugur sejumlah 3 butir dan karena keterbatasan waktu maka yang digunakan dalam penelitian sejumlah 30 butir dengan semua indikator terwakili.

#### B. Analisis Reliabilitas

Analisis reliabilitas kuesioner kedisiplinan menggunakan *IBM SPSS Statistic Version 26* dengan hasil yang diperoleh sebagai berikut.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| 0,669                  | 30         |

Nilai dari *Cronbach's Alpha* sebesar 0,669 ( $0,669 > 0,60$ ) menunjukkan bahwa kuesioner kedisiplinan yang diuji memiliki reliabilitas yang tinggi (sujerweni,2004). Hasil ini menunjukkan bahwa kuesioner kedisiplinan sudah lolos uji reliabilitas dan dinyatakan layak digunakan untuk pengambilan data penelitian.

## Lampiran 11

## KISI-KISI HASIL BELAJAR FISIKA SISWA YANG DIUJICOBAKAN

| Tujuan Pembelajaran                             | Materi   | Indikator Pencapaian Tujuan Pembelajaran  | Proses Kognitif |    |    |    | Nomor Butir | Jumlah Butir |
|---|--|---|-----------------|----|----|----|-------------|--------------|
|   |  |   | C3              | C4 | C5 | C6 |             |              |
| Menerapkan konsep dan prinsip kinematika gerak. | Pendahuluan Mekanika                                 | 2.1 Menerapkan gerak dalam satu dimensi dengan kecepatan konstan dan percepatan konstan | √               |    |    |    | 1,2,3,4,5   | 5            |
|   | Gerak lurus dan kejadian dalam kehidupan sehari-hari | 2.2 Menentukan besaran-besaran gerak lurus satu dimensi dengan kecepatan tetap          | √               |    |    |    | 6,7         | 2            |
|   | Gerak lurus berubah beraturan                        | 2.3 Menganalisis besaran fisis pada gerak lurus berubah beraturan satu dimensi          |                 | √  |    |    | 8,9,10      | 3            |
|   |  | 24.Membuat persamaan gerak suatu benda pada gerak lurus berubah beraturan               |                 |    |    | √  | 11,12       | 2            |
|   | Gerak parabola                                       | 2.5Merumuskan persamaan gerak suatu   |                 |    | √  |    | 13,14,15    | 3            |

| Tujuan Pembelajaran | Materi                     | Indikator Pencapaian Tujuan Pembelajaran             | Proses Kognitif |        |    |    | Nomor Butir  | Jumlah Butir |
|---------------------|----------------------------|--|-----------------|--------|----|----|--------------|--------------|
|                     |                            |  | C3              | C4     | C5 | C6 |              |              |
|                     |                            | benda pada gerak parabola                            |                 |        |    |    |              |              |
|                     |                            | 2.6 Menganalisis gerak parabola                      |                 | √      |    |    | 16,17, 18,19 | 4            |
|                     | Gerak Melingkar dan Rotasi | 2.7 Menentukan gerak melingkar dengan kelajuan tetap | √               |        |    |    | 20,21        | 2            |
|                     |                            | 2.8 Menganalisis gerak melingkar                     |                 | √      |    |    | 22,23, 24,25 | 4            |
|                     | Jumlah                     |  | 9               | 1<br>1 | 3  | 2  |              | 25           |





## Lampiran 12

### TES HASIL BELAJAR FISIKA SISWA YANG DIUJICOBAKAN

|                  |                          |
|------------------|--------------------------|
| Mata Pelajaran   | : Fisika                 |
| Kelas            | : XI MIPA                |
| Materi           | : Kinematika Gerak Lurus |
| Waktu Pengerjaan | : 120 menit              |

#### Petunjuk Pengerjaan Soal!

1. Tulis identitas pada lembar jawaban yang telah disediakan.
2. Bacalah seluruh soal dengan cermat, apabila terdapat soal yang kurang jelas tanyakan
3. Kerjakan soal dan pilih jawaban yang tersedia dengan tanda (X)
4. Tidak boleh mencorat-coret dan merubah lembar soal
5. Sebelum anda menyerahkan lembar ini, periksalah kembali dengan seksama agar tidak ada pernyataan yang terlewat.

1. Seorang sopir sedang mengendarai sebuah mobil yang bergerak dengan kecepatan tetap 25 m/s. Ketika sopir melihat seorang anak yang tiba-tiba menyeberang jalan, diperlukan waktu 0,10 s bagi sopir untuk bereaksi dan mengerem. Akibatnya, mobil melambat dengan percepatan tetap 5,0 m/s<sup>2</sup> dan berhenti. Jarak total yang ditempuh mobil tersebut sejak sopir melihat anak menyeberang hingga mobil berhenti adalah ...

- a. 10 m
- b. 11 m
- c. 37 m
- d. 48 m
- e. 65 m

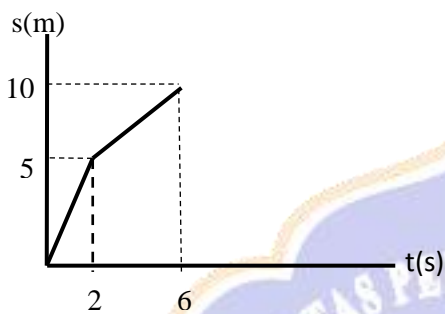
2. Sebuah balon naik dengan kecepatan 12 m/s. Ketika ketinggian mencapai 80 m di atas tanah, sebuah benda dijatuhkan. Waktu yang dibutuhkan benda tersebut adalah...

- a. 5,4 s
- b. 7,2 s
- c. 10,3 s
- d. 12,5 s
- e. 16,2 s

3. Seorang anak naik keatas gedung dengan laju konstan sebesar 32 kaki/s. Ketika tingginya mencapai 100 kaki di atas tanah, kemudian ia melemparkan bola ke atas. Laju awal bola adalah 64 kaki/s. Tinggi maksimum yang dapat dicapai oleh bola adalah...

- a. 117 kaki
- b. 129 kaki
- c. 244 kaki
- d. 267 kaki
- e. 300 kaki

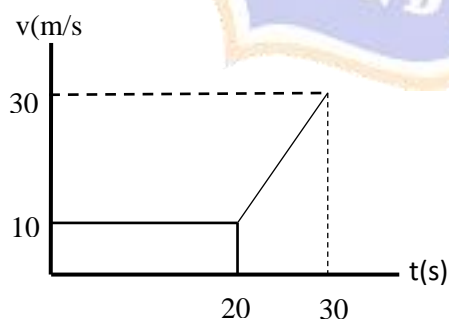
4. Perhatikan grafik di bawah ini!



Pada gambar menyatakan hubungan antara jarak ( $s$ ) terhadap ( $t$ ) dari benda yang bergerak. Jika  $s$  dalam m, dan  $t$  dalam sekon, maka kecepatan rata-rata benda adalah...

- a. 0,60 m/s
- b. 1,67 m/s
- c. 2,50 m/s
- d. 3,0 m/s
- e. 4,2 m/s

5. Gerakan sebuah mobil digambarkan oleh grafik kecepatan terhadap waktu. seperti gambar di bawah ini.



Tentukan besar percepatan mobil jika mobil bergerak makin cepat adalah...

- a.  $0,5 \text{ m/s}^2$
- b.  $1,0 \text{ m/s}^2$
- c.  $1,5 \text{ m/s}^2$

d.  $2,0 \text{ m/s}^2$

e.  $6,0 \text{ m/s}^2$

6. Sebuah benda bergerak lurus beraturan dengan kecepatan 72 km/jam. Jika benda tersebut bergerak selama 30 menit, maka jarak yang sudah ditempuh oleh benda adalah...m

a. 20.000 m

b. 32.000 m

c. 36.000 m

d. 40.000 m

e. 42.000 m

7. Budi mengendarai sepeda motor dari warung nasi ke pos satpam yang berjarak 50 m, dengan kecepatan tetap. Waktu yang diperlukan budi adalah 10 menit. Maka besar kecepatan sepeda motor yang dikendarai oleh Budi adalah...m/s

a. 0,083 m/s

b. 0,183 m/s

c. 0,283 m/s

d. 0,383 m/s

e. 0,483 m/s

8. Tiga benda bergerak lurus berubah beraturan pada bidang datar. Ketiga benda bergerak dengan percepatan yang sama. Besaran-besaran yang dimiliki ketiga benda setelah bergerak selama 10 sekon ditunjukkan pada tabel berikut.

| Benda | $v_0(m/s)$ | $v_t(m/s)$ | s(m) |
|-------|------------|------------|------|
| 1     | 2          | 22         | 120  |
| 2     | P          | 24         | 140  |
| 3     | 0          | 20         | Q    |

Data P dan Q pada tabel tersebut bernilai...

a. 6 dan 140

b. 6 dan 120

c. 4 dan 120

d. 4 dan 100

e. 8 dan 120

9. Doni, Budi, dan Cecep berlari dengan kecepatan yang berbeda, dan mempunyai percepatan yang sama. Data gerak ketiga anak tersebut ditunjukkan pada tabel berikut.

| Anak | $v_0(m/s)$ | $v_t(m/s)$ | s(m) |
|------|------------|------------|------|
| Doni | 10         | P          | 200  |
| Budi | 5          | 25         | 150  |

|       |   |    |   |
|-------|---|----|---|
| Cecep | 5 | 35 | Q |
|-------|---|----|---|

Data P dan Q pada tabel tersebut bernilai...

- 20 dan 100
- 30 dan 200
- 30 dan 300
- 50 dan 300
- 60 dan 400

10. Seorang anak menjatuhkan sebuah batu dari ketinggian 20 m. Satu detik kemudian ia melemparkan sebuah batu lain ke bawah. Anggap tidak ada gesekan udara dan percepatan gravitasi  $10 \text{ m/s}^2$ . Jika kedua batu tersebut mencapai tanah bersamaan, maka kelajuan awal batu kedua adalah..

- 5 m/s
- 15 m/s
- 20 m/s
- 35 m/s
- 40 m/s

11. Bola X yang jatuh bebas dari ketinggian D bertabrakan dengan bola Y yang dilemparkan ke atas dari tanah dengan kelajuan awal  $v$ . Persamaan waktu yang mewakili tabrakan berlangsung adalah...

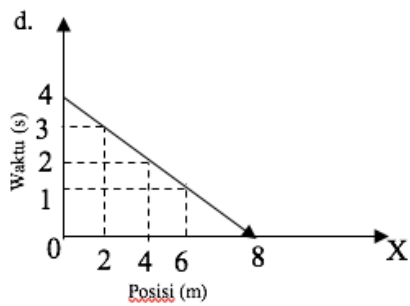
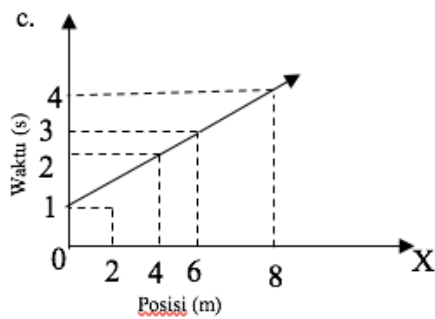
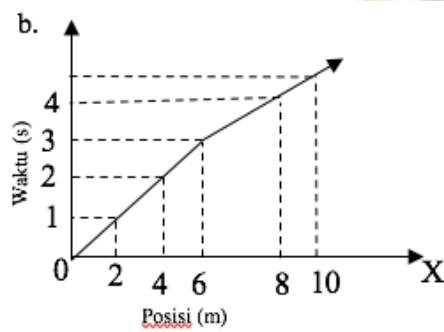
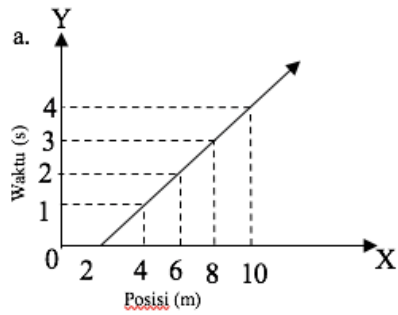
- $t = \sqrt{\frac{D}{2g}}$
- $t = \sqrt{\frac{2D}{g}}$
- $t = \frac{2D}{v}$
- $t = \frac{D}{2v}$
- $t = \frac{D}{v}$

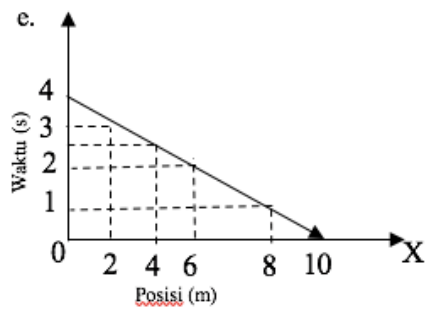
12. Seorang mahasiswa melakukan percobaan gerak lurus dengan mengukur posisi benda pada setiap detiknya. Berikut adalah data yang diperoleh dari percobaan tersebut:

| Waktu (s) | Posisi (m) |
|-----------|------------|
| 0         | 2          |
| 1         | 4          |
| 2         | 6          |

|   |    |
|---|----|
| 3 | 8  |
| 4 | 10 |

Grafik posisi terhadap waktu yang menggambarkan persamaan matematis dari gerak benda tersebut adalah...





13. Sebuah bola bergerak membentuk lintasan parabola. Tinggi maksimum yang dicapai bola adalah  $y$ , dan percepatan gravitasi bola adalah  $g$ . apabila bola bergerak dengan sudut  $53^\circ$  terhadap tanah, kecepatan awal bola adalah...m/s

a.  $\frac{\sqrt{yg}}{0,4}$

b.  $\frac{\sqrt{yg}}{0,8}$

c.  $\frac{\sqrt{yg}}{0,6}$

d.  $\frac{\sqrt{2yg}}{0,8}$

e.  $\frac{\sqrt{2yg}}{0,6}$

14. Bola dilepaskan dari ketinggian  $h$  di atas permukaan tanah. Bersamaan dengan pelepasan bola A, benda B diberi kecepatan vertikal ke atas sebesar  $v$  dari permukaan tanah. Percepatan gravitasi  $g$ . Agar A dan B mencapai tanah pada saat yang sama harus dipenuhi hubungan...

a.  $h = \frac{4v^2}{g}$

b.  $h = \frac{2v^2}{3g}$

c.  $h = \frac{v^2}{2g}$

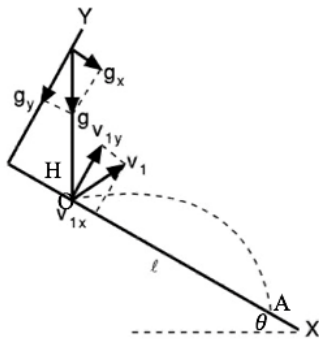
d.  $h = \frac{2v^2}{g}$

e.  $h = \frac{2v^2}{2g}$

15. Bola dijatuhkan tanpa kecepatan awal dari ketinggian  $H$  pada sebuah bukit. Bukit tersebut mempunyai kemiringan  $\theta$  terhadap arah horizontal. Setelah bola



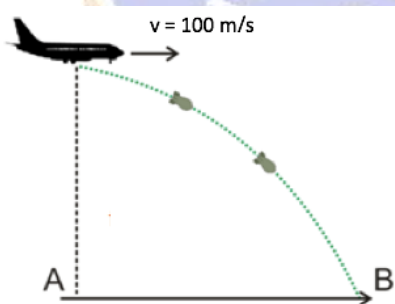
menyentuh tanah, bola memantul dan membentuk gerak parabola dari titik O ke titik A seperti gambar di bawah ini.



Jarak yang ditempuh bola dari titik O ke titik A adalah...

- $x = 8 H$
- $x = 8H \sin \theta$
- $x = 4 H$
- $x = 4H \sin \theta$
- $x = 12 H$

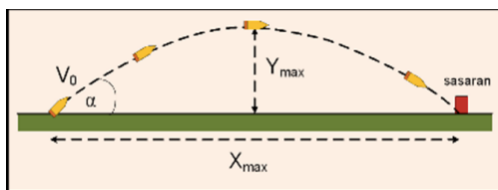
16. Perhatikan gambar di bawah ini!



Sebuah pesawat terbang bergerak mendatar dengan kecepatan 100 m/s melepaskan bantuan dari ketinggian 500 m. Jika bantuan jatuh di B dan  $g = 10 \text{ m/s}^2$ . Jarak AB adalah...

- 500 m
- 1000 m
- 2000 m
- 3000 m
- 4000 m

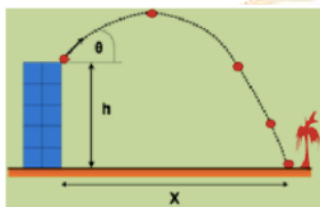
17. Perhatikan gambar di bawah ini!



Sebuah meriam menembakkan peluru dengan kelajuan awal 100 m/s dan sudut elevasi  $37^\circ$ . Jika percepatan gravitasi bumi  $10 \text{ m/s}^2$ ,  $\sin 37^\circ = 3/5$  dan  $\cos 37^\circ = 4/5$ . Jarak mendatar peluru saat  $t = 1$  sekon adalah...

- 50 m
- 60 m
- 80 m
- 100 m
- 120 m

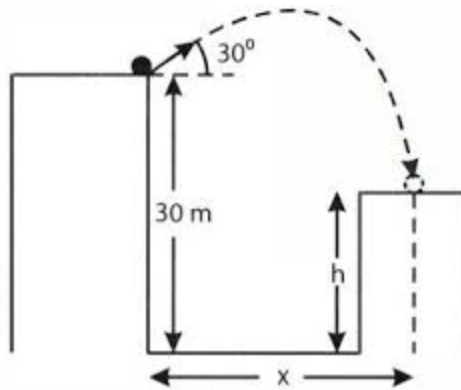
18. Perhatikan gambar di bawah ini!



Sebuah bola dilontarkan dari atap sebuah gedung yang tingginya adalah  $h = 10 \text{ m}$  dengan kelajuan awal  $V_0 = 10 \text{ m/s}$ . Jika percepatan gravitasi bumi adalah  $10 \text{ m/s}^2$ , sudut yang terbentuk antara arah lemparan bola dengan arah horizontal adalah  $60^\circ$  dan gesekan bola dengan udara diabaikan. Waktu yang diperlukan bola untuk menyentuh tanah adalah...

- 2 s
- 5 s
- 10 s
- 20 s
- 25 s

19. Sebuah batu dilempar dari atas tebing setinggi 30 m dengan kecepatan 20 m/s berarah  $30^\circ$  terhadap horizontal seperti gambar di bawah ini



Batu mendarat di tebing lain setinggi  $h$ , setelah 3 s. Jika  $x$  adalah jarak antara posisi melempar dengan posisi mendarat maka perbandingan  $h$  dan  $x$  adalah...

- a.  $1 : 2\sqrt{3}$
- b.  $1:2$
- c.  $2\sqrt{3} : 1$
- d.  $3 : 2\sqrt{3}$
- e.  $5 : 2\sqrt{3}$

20. Sebuah kelereng bergerak mengelilingi baskom berbentuk lingkaran berdiameter 1 m. Jika kelereng memiliki kecepatan sudut tetap sebesar  $\frac{100\pi}{60}$  rad/s. Kecepatan linier dan percepatan sentripetal kelereng adalah...

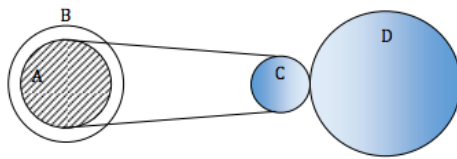
- a. 50 m/s dan  $2500 \text{ m/s}^2$
- b.  $\frac{5\pi}{3}$  m/s dan  $\frac{25\pi^2}{18} \text{ m/s}^2$
- c.  $\frac{5\pi}{6}$  m/s dan  $\frac{25\pi^2}{18} \text{ m/s}^2$
- d.  $\frac{5\pi}{12}$  m/s dan  $\frac{25\pi^2}{36} \text{ m/s}^2$
- e.  $\frac{5\pi}{12}$  m/s dan  $\frac{25\pi^2}{60} \text{ m/s}^2$

21. Dari keadaan diam, benda tegar melakukan gerak rotasi dengan percepatan sudut  $15 \text{ rad/s}^2$ . Titik A berada pada benda tersebut, berjarak 10 cm dari sumbu putar. Tepat setelah benda berotasi selama 0,4 sekon, titik A mengalami percepatan total sebesar...

- a.  $1,5 \text{ m/s}^2$
- b.  $2,1 \text{ m/s}^2$
- c.  $3,6 \text{ m/s}^2$
- d.  $3,9 \text{ m/s}^2$

e.  $4,1 \text{ m/s}^2$

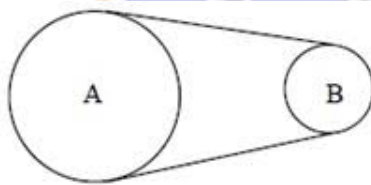
22. Perhatikan gambar di bawah ini!



Jari-jari roda A = 30 cm, roda B = 40 cm, roda C = 25 cm, dan roda D = 50 cm. Roda B berputar dengan kecepatan angular 50 rad/s. Kecepatan angular roda D adalah ...

- A. 80 rad/s
- B. 60 rad/s
- C. 50 rad/s
- D. 40 rad/s
- E. 30 rad/s

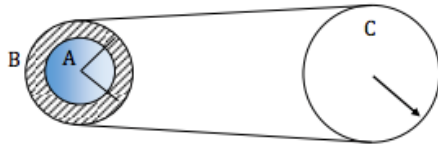
23. Perhatikan gambar di bawah ini!



Dua roda A dan B dihubungkan dengan pita, jika jari-jari roda A sebesar 2 kali jari-jari roda B, jika roda bergerak searah jarum jam dan kecepatan angular roda bergantung pada jari-jari roda tersebut, persamaan yang tepat adalah...

- a.  $v_a = 2v_b$
- b.  $v_a = \frac{1}{2}v_b$
- c.  $v_a = v_b$
- d.  $\omega_a = \omega_b$
- e.  $v_a = \omega_b$

24. Perhatikan gambar di bawah ini!



Tiga buah roda dihubungkan seperti gambar di bawah. Roda A dan B seporos. Sedangkan roda B dan roda C dihubungkan dengan sabuk. Jika  $R_A = 2$  cm,  $R_B = 4$  cm, dan  $R_C = 20$  cm maka perbandingan kecepatan sudut roda B dan C adalah ...

- a. 1 : 5
- b. 2 : 1
- c. 2 : 5
- d. 5 : 1
- e. 2 : 4

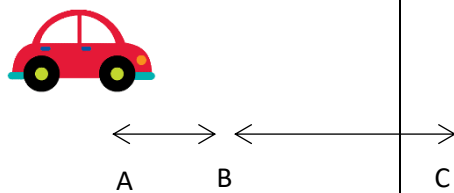
25. Sebuah benda bermassa 2 kg berputar dengan kecepatan  $4\pi \text{ rad/s}$ . Jika jari-jari putaran benda adalah 5 meter, maka percepatan sentripetal gerak benda adalah...

- a.  $42\pi^2 \text{ m/s}^2$
- b.  $68\pi^2 \text{ m/s}^2$
- c.  $80\pi^2 \text{ m/s}^2$
- d.  $90\pi^2 \text{ m/s}^2$
- e.  $98\pi^2 \text{ m/s}^2$



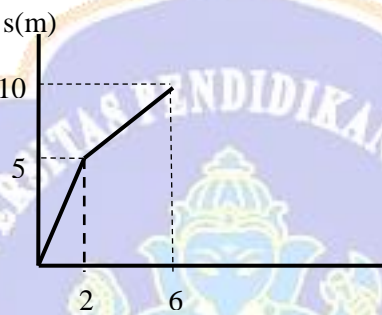
## Lampiran 13

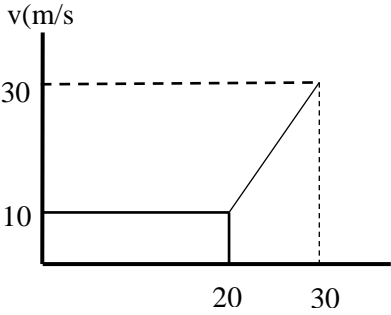
## KUNCI JAWABAN TES HASIL BELAJAR YANG DIUJICOBAKAN

| No | Indikator  | Soal  | Jawaban   |
|----|--|---|---|
| 1  | 2.1<br>Menerapkan gerak dalam satu dimensi dengan kecepatan konstan dan percepatan konstan | Seorang sopir sedang mengendarai sebuah mobil yang bergerak dengan kecepatan tetap 25 m/s. Ketika sopir melihat seorang anak yang tiba-tiba menyeberang jalan, diperlukan waktu 0,10 s bagi sopir untuk bereaksi dan mengerem. Akibatnya, mobil melambat dengan percepatan tetap 5,0 m/s <sup>2</sup> dan berhenti. Jarak total yang ditempuh mobil tersebut sejak sopir melihat anak menyeberang hingga mobil berhenti adalah ...<br><br>a. 10 m<br>b. 11 m<br>c. 37 m<br>d. 48 m<br>e. 65 m | a. 65 m<br><br>Diketahui:<br><br><br>Sejak mobil melihat anak hanya B-C. Pada posisi A ke B benda bergerak lurus beraturan (kecepatan konstan) jika waktu respon sopir adalah $t = 0,1$ s sehingga:<br>$s_{AB} = v_0 t$<br>$s_{AB} = 25(0,1) = 2,5$ m<br><br>Pada posisi B ke C bergerak lurus berubah beraturan dengan perlambatan tetap $a = 5$ m/s <sup>2</sup> sehingga:<br>$v_t^2 = v_0^2 - 2as_{BC}$ ,<br>pada saat berhenti, $v_t = 0$ ,<br>maka:<br>$0 = 25^2 - 2(5)s_{BC}$<br>$s_{BC} = 62,5$ m<br><br>Jarak total (s) = $s_{AB} + s_{BC}$<br>$s = 2,5 + 62,5 = 65$ m |
| 2  |  | Sebuah balon naik dengan kecepatan 12 m/s. Ketika ketinggian mencapai 80 m di atas tanah, sebuah benda dijatuhkan.  | a. 5,4 s<br><br>Diketahui :   |

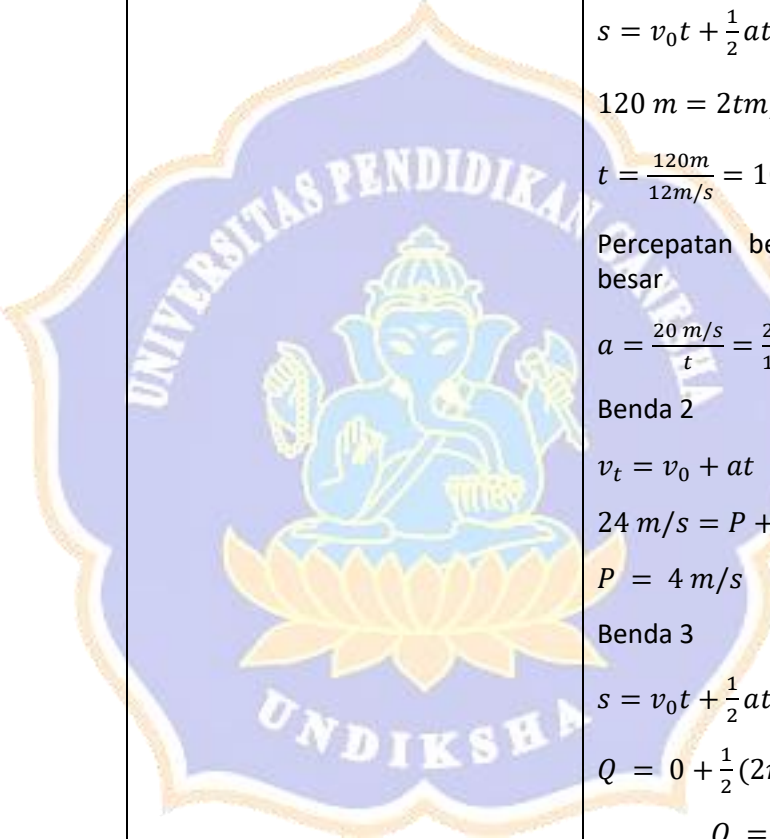


| No | Indikator | Soal   | Jawaban   |
|----|-----------|--|---|
|    |           | <p>Waktu yang dibutuhkan benda tersebut adalah...</p> <p>a. 5,4 s<br/>b. 7,2 s<br/>c. 10,3 s<br/>d. 12,5 s<br/>e. 16,2 s</p>   | <p><math>v_0 = 12 \text{ m/s}</math><br/><math>x_0 = 80 \text{ m}</math></p> <p>Ditanya :</p> <p>Waktu yang diperlukan untuk menjangkau tanah?</p> <p>Jawab :</p> <p>Pilihlah sumbu positif vertikal ke atas dengan titik asal berada di tanah. Pada saat <math>t = 0</math> benda dijatuhkan dengan kecepatan <math>v_0</math> yang diarahkan ke atas (yakni, <math>v_0 = 12 \text{ m/s}</math>) dari ketinggian <math>x_0 = 80 \text{ m}</math>. Pada saat <math>t = T</math> benda itu mencapai tanah, dari sini didapatkan persamaan:</p> $x = \frac{1}{2}(-9,8)t^2 + 12t + 80$ $0 = \frac{1}{2}(-9,8)t^2 + 12t + 80$ <p><math>t = 5,4 \text{ s}</math></p> |
| 3  |           | <p>Seorang anak naik keatas gedung dengan laju konstan sebesar 32 kaki/s. Ketika tingginya mencapai 100 kaki di atas tanah, kemudian ia melemparkan bola ke atas. Laju awal bola adalah 64 kaki/s. Tinggi maksimum yang dapat dicapai oleh bola adalah...</p> <p>a. 117 kaki<br/>b. 129 kaki<br/>c. 244 kaki<br/>d. 267 kaki<br/>e. 300 kaki</p> | <p>c. 244 kaki</p> <p>Diketahui :</p> <p><math>v_{\text{elevator}} = 32 \text{ m/s}</math><br/><math>h = 100 \text{ kaki}</math><br/><math>v_{\text{bola}} = 64 \text{ m/s}</math></p> <p>Ditanya:</p> <p>tinggi maksimum yang dapat dicapai oleh bola</p> <p>Jawab:</p> <p>Laju awal bola <math>v</math> relatif terhadap tanah adalah <math>32 \text{ kaki/s} + 64 \text{ kaki/s} = 96 \text{ kaki/s}</math>. Ketinggian <math>x</math> yang dicapai oleh bola di atas elevator (bila dilemparkan) diperoleh dari:</p>  |

| No | Indikator | Soal  | Jawaban   |
|----|-----------|---|---|
|    |           |   | $v^2 = 2gx$<br>$(96)^2 = 2 (32 \text{ kaki/s}^2) x$<br>$x = 144 \text{ kaki}$<br>Karena bola dilemparkan dari ketinggian 100 kaki, jadi ketinggian maksimal yang dapat dicapai adalah, 100 kaki+144 kaki = 244 kaki.  |
| 4  |           | <p>Perhatikan grafik di bawah ini!</p>  <p>Pada gambar menyatakan hubungan antara jarak (s) terhadap (t) dari benda yang bergerak. Jika s dalam m, dan t dalam sekon, maka kecepatan rata-rata benda adalah...</p> <p>a. 0,60 m/s<br/>           b. 1,67 m/s<br/>           c. 2,50 m/s<br/>           d. 3,0 m/s<br/>           e. 4,2 m/s</p> | <p>b. 1,67 m/s</p> <p>Diketahui:</p> $s_t = 10 \text{ m}$<br>$s_0 = 0 \text{ m}$<br>$t = 10 \text{ s}$<br>$t_0 = 6 \text{ s}$ <p>Ditanyakan:</p> <p>Kecepatan rata-rata (<math>\bar{v}</math>)</p> <p>Dijawab:</p> $(\bar{v}) = \frac{\text{Perpindahan}}{\text{waktu}} = \frac{s_t - s_0}{t - t_0}$ <p>Maka:</p> $(\bar{v}) = \frac{10 - 0}{6 - 0} = \frac{10}{6} = 1,67 \text{ m/s}$ <p>Jadi kecepatan rata-rata benda 1,67 m/s</p> <p>Ok</p> |
| 5  |           | <p>Gerakan sebuah mobil digambarkan oleh grafik kecepatan terhadap waktu. seperti gambar di bawah ini.</p>  | <p>d. 2,0 m/s<sup>2</sup></p> <p>Diketahui:</p>   |

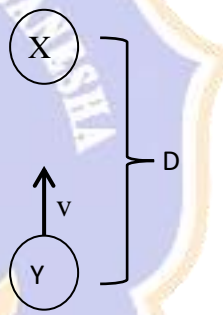
| No | Indikator  | Soal   | Jawaban   |
|----|--|--|---|
|    |  |  <p data-bbox="549 667 983 766">Tentukan besar percepatan mobil jika mobil bergerak makin cepat adalah...</p> <p data-bbox="596 792 772 981"> a. <math>0,5 \text{ m/s}^2</math><br/> b. <math>1,0 \text{ m/s}^2</math><br/> c. <math>1,5 \text{ m/s}^2</math><br/> d. <math>2,0 \text{ m/s}^2</math><br/> e. <math>6,0 \text{ m/s}^2</math> </p>                              | <p data-bbox="1005 291 1171 600"> <math>t_0 = 0</math><br/> <math>v_0 = 0</math><br/> <math>t_1 = 20 \text{ s}</math><br/> <math>v_1 = 10 \text{ m/s}</math><br/> <math>t_2 = 30 \text{ s}</math><br/> <math>v_2 = 30 \text{ m/s}</math> </p> <p data-bbox="1005 680 1283 766"> Ditanya:<br/> Percepatan mobil (<math>a</math>)? </p> <p data-bbox="1005 851 1267 1106"> Jawab:<br/> <math display="block">a = \frac{v_t - v_0}{t - t_0}</math> <math display="block">a = \frac{30 \text{ m/s} - 10 \text{ m/s}}{30 \text{ s} - 20 \text{ s}}</math> <math display="block">a = \frac{20 \text{ m/s}}{10 \text{ s}} = 2 \text{ m/s}^2</math> </p> <p data-bbox="1005 1128 1388 1232"> Jadi, saat mobil bergerak makin cepat mobil mengalami percepatan sebesar <math>2 \text{ m/s}^2</math> </p> <p data-bbox="1005 1366 1043 1397">Ok</p> |
| 6  | 2.2 Menentukan besaran-besaran gerak lurus satu dimensi dengan kecepatan tetap | <p data-bbox="564 1429 983 1644">Sebuah benda bergerak lurus beraturan dengan kecepatan <math>72 \text{ km/jam}</math>. Jika benda tersebut bergerak selama 30 menit, maka jarak yang sudah ditempuh oleh benda adalah...m</p> <p data-bbox="564 1653 724 1836"> a. <math>20.000 \text{ m}</math><br/> b. <math>32.000 \text{ m}</math><br/> c. <math>36.000 \text{ m}</math><br/> d. <math>40.000 \text{ m}</math><br/> e. <math>42.000 \text{ m}</math> </p> | <p data-bbox="1005 1429 1149 1460">c. <math>36.000 \text{ m}</math></p> <p data-bbox="1005 1482 1171 1514">Penyelesaian:</p> <p data-bbox="1005 1536 1394 1608">Diketahui : <math>v = 72 \text{ km/jam} = 20 \text{ m/s}</math></p> <p data-bbox="1005 1630 1394 1702"><math>t = 30 \text{ menit} = 1.800 \text{ sekon}</math><br/>Ditanyakan : <math>s = \dots ?</math></p> <p data-bbox="1005 1724 1369 1818">Jawab : <math>s = v \times t</math><br/><math>= 20 \text{ m/s} \times 1.800 \text{ s} = 36.000 \text{ m}</math></p>   |

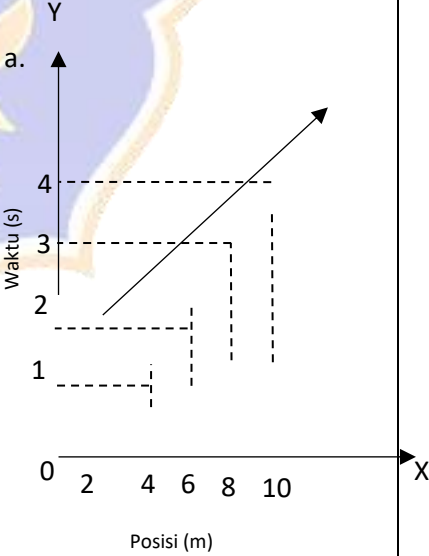
| No    | Indikator  | Soal  | Jawaban   |            |            |     |   |   |    |  |   |   |    |  |   |   |    |  |   |
|-------|--|---|---|------------|------------|-----|---|---|----|--|---|---|----|--|---|---|----|--|---|
| 7     |  | <p>Budi mengendarai sepeda motor dari warung nasi ke pos satpam yang berjarak 50 m, dengan kecepatan tetap. Waktu yang diperlukan budi adalah 10 menit. Maka besar kecepatan sepeda motor yang dikendarai oleh Budi adalah...m/s</p> <p>a. 0,083 m/s<br/>b. 0,183 m/s<br/>c. 0,283 m/s<br/>d. 0,383 m/s<br/>e. 0,483 m/s</p>  | <p>a. 0,083 m/s</p> <p>Penyelesaian:</p> <p>Diketahui :</p> <p><math>s = 50 \text{ m}</math></p> <p><math>t = 10 \text{ menit} = 600 \text{ sekon}</math></p> <p>Ditanyakan : <math>v = \dots ?</math></p> <p>Jawab : <math>v = \frac{s}{t}</math></p> <p><math>v = \frac{50\text{m}}{600\text{s}} = 0,083 \text{ m/s}</math></p> |            |            |     |   |   |    |  |   |   |    |  |   |   |    |  |   |
| 8     | 2.3Mengana lisis besaran fisis pada gerak lurus berubah beraturan satu dimensi | <p>Tiga benda bergerak lurus berubah beraturan pada bidang datar. Ketiga benda bergerak dengan percepatan yang sama. Besaran-besaran yang dimiliki ketiga benda setelah bergerak selama 10 sekon ditunjukkan pada tabel berikut.</p> <table border="1" data-bbox="552 1189 979 1424"> <thead> <tr> <th>Benda</th> <th><math>v_0(m/s)</math></th> <th><math>v_t(m/s)</math></th> <th><math>s</math></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>22</td> <td></td> </tr> <tr> <td>2</td> <td>P</td> <td>24</td> <td></td> </tr> <tr> <td>3</td> <td>0</td> <td>20</td> <td></td> </tr> </tbody> </table> <p>Data P dan Q pada tabel tersebut bernilai...</p> <p>a. 6 dan 140<br/>b. 6 dan 120<br/>c. 4 dan 120<br/>d. 4 dan 100<br/>e. 8 dan 120</p> | Benda   | $v_0(m/s)$ | $v_t(m/s)$ | $s$ | 1 | 2 | 22 |  | 2 | P | 24 |  | 3 | 0 | 20 |  | <p>d. 4 dan 100</p> <p>Diketahui:</p> <p><math>t = 10 \text{ s}</math></p> <p>Benda 1</p> <p><math>v_0 = 2 \text{ m/s}</math></p> <p><math>v_t = 22 \text{ m/s}</math></p> <p><math>s = 120 \text{ m}</math></p> <p>Benda 2</p> <p><math>v_0 = P</math></p> <p><math>v_t = 24 \text{ m/s}</math></p> <p><math>s = 140 \text{ m}</math></p> <p>Benda 3</p> <p><math>v_0 = 0 \text{ m/s}</math></p> <p><math>v_t = 20 \text{ m/s}</math></p> <p><math>s = Q</math></p> <p>Ditanya:</p> <p>P dan Q</p> |
| Benda | $v_0(m/s)$   | $v_t(m/s)$  | $s$   |            |            |     |   |   |    |  |   |   |    |  |   |   |    |  |   |
| 1     | 2  | 22  |   |            |            |     |   |   |    |  |   |   |    |  |   |   |    |  |   |
| 2     | P  | 24  |   |            |            |     |   |   |    |  |   |   |    |  |   |   |    |  |   |
| 3     | 0  | 20  |   |            |            |     |   |   |    |  |   |   |    |  |   |   |    |  |   |

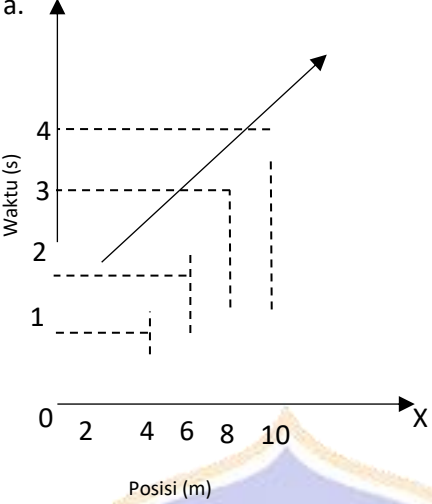
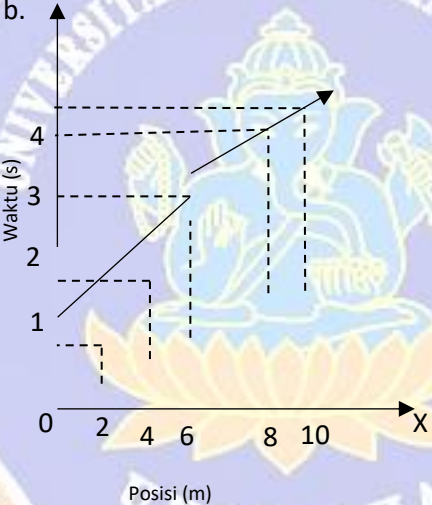
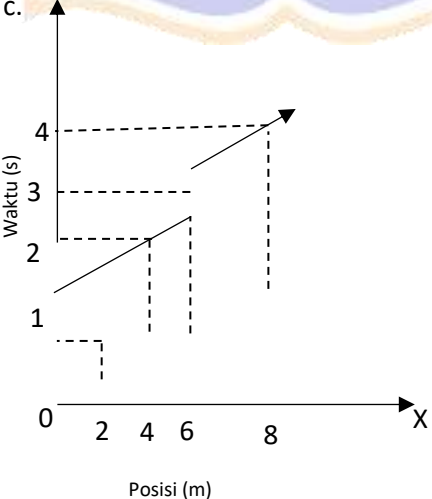
| No   | Indikator  | Soal  | Jawaban  |            |            |   |      |    |   |  |  |
|------|------------|---|--|------------|------------|---|------|----|---|--|--|
|      |            |    | <p>Jawab:</p> <p>Benda 1</p> $v_t = v_0 + at$ $22m/s = 2m/s + at$ $a = \frac{20}{t} m/s \dots(1)$ <p>Percepatan dapat dicari dengan mensubstitusi persamaan (1) pada persamaan jarak tempuh.</p> $s = v_0t + \frac{1}{2}at^2$ $120 m = 2tm/s + \frac{1}{2} \frac{20m/s}{t} t^2$ $t = \frac{120m}{12m/s} = 10 s$ <p>Percepatan benda 1,2,3 sama besar</p> $a = \frac{20 m/s}{t} = \frac{20}{10} = 2 m/s$ <p>Benda 2</p> $v_t = v_0 + at$ $24 m/s = P + (2m/s^2)(10 s)$ $P = 4 m/s$ <p>Benda 3</p> $s = v_0t + \frac{1}{2}at^2$ $Q = 0 + \frac{1}{2}(2m/s^2)(10s)^2$ $Q = 100 m$ |            |            |   |      |    |   |  |  |
| 9    |            | <p>Doni, Budi, dan Cecep berlari dengan kecepatan yang berbeda, dan mempunyai percepatan yang sama. Data gerak ketiga anak tersebut ditunjukkan pada tabel berikut.</p> <table border="1" data-bbox="550 1865 995 1977"> <thead> <tr> <th>Anak</th> <th><math>v_0(m/s)</math></th> <th><math>v_t(m/s)</math></th> <th>s</th> </tr> </thead> <tbody> <tr> <td>Doni</td> <td>10</td> <td>P</td> <td></td> </tr> </tbody> </table> | Anak   | $v_0(m/s)$ | $v_t(m/s)$ | s | Doni | 10 | P |  | <p>c. 30 dan 300</p> <p>Diketahui:</p> <p>Doni</p> $v_{0A} = 10 m/s$ $s_A = 200 m$ <p>Bundi</p> $v_{0B} = 5 m/s$ |
| Anak | $v_0(m/s)$ | $v_t(m/s)$  | s  |            |            |   |      |    |   |  |  |
| Doni | 10         | P   |  |            |            |   |      |    |   |  |  |

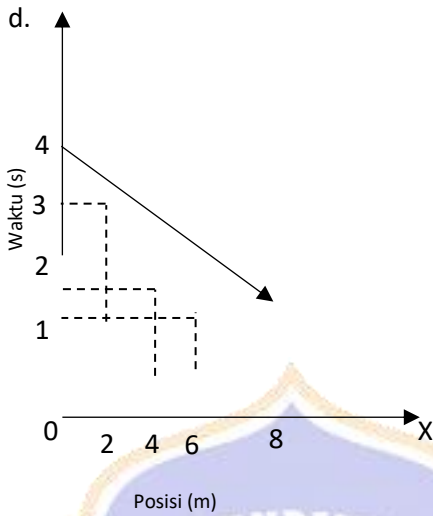
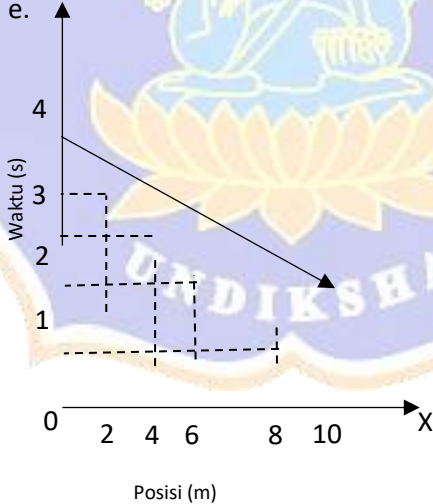
| No    | Indikator | Soal  | Jawaban  |   |    |       |   |    |  |
|-------|-----------|---|--|---|----|-------|---|----|--|
|       |           | <table border="1" data-bbox="552 282 979 405"> <tr> <td data-bbox="552 282 671 338">Budi</td> <td data-bbox="671 282 820 338">5</td> <td data-bbox="820 282 979 338">25</td> </tr> <tr> <td data-bbox="552 338 671 405">Cecep</td> <td data-bbox="671 338 820 405">5</td> <td data-bbox="820 338 979 405">35</td> </tr> </table> <p data-bbox="552 405 979 472">Data P dan Q pada tabel tersebut bernilai...</p> <p data-bbox="552 495 979 685">           a. 20 dan 100<br/>           b. 30 dan 200<br/>           c. 30 dan 300<br/>           d. 50 dan 300<br/>           e. 60 dan 400         </p> | Budi   | 5 | 25 | Cecep | 5 | 35 | <p data-bbox="995 282 1402 338"><math>100 = 25 \text{ m/s}</math></p> <p data-bbox="995 338 1402 405"><math>150 = 150 \text{ m}</math></p> <p data-bbox="995 405 1402 439">Cecep</p> <p data-bbox="995 450 1402 483"><math>v_{0C} = 5 \text{ m/s}</math></p> <p data-bbox="995 506 1402 539"><math>v_{tc} = 35 \text{ m/s}</math></p> <p data-bbox="995 562 1402 595">Ditanya: P dan Q</p> <p data-bbox="995 618 1402 651">Jawab:</p> <p data-bbox="995 674 1402 741">Percepatan Doni,budi,Cecep adalah:</p> <p data-bbox="995 763 1402 797"><math>v_t^2 = v_0^2 + 2as</math></p> <p data-bbox="995 819 1402 853"><math>25^2 = 5^2 + 2a(150)</math></p> <p data-bbox="995 875 1402 909"><math>a = 2 \text{ m/s}^2</math></p> <p data-bbox="995 931 1402 965">Nilai P:</p> <p data-bbox="995 987 1402 1021"><math>v_t^2 = v_0^2 + 2as</math></p> <p data-bbox="995 1043 1402 1077"><math>P^2 = 10^2 + 2(2)(200)</math></p> <p data-bbox="995 1099 1402 1133"><math>P = 30 \text{ m/s}</math></p> <p data-bbox="995 1155 1402 1189">Nilai Q:</p> <p data-bbox="995 1211 1402 1245"><math>v_t^2 = v_0^2 + 2as</math></p> <p data-bbox="995 1267 1402 1301"><math>35^2 = 5^2 + 2(2)(Q)</math></p> <p data-bbox="995 1323 1402 1357"><math>Q = 300 \text{ m}</math></p> |
| Budi  | 5         | 25  |  |   |    |       |   |    |  |
| Cecep | 5         | 35  |  |   |    |       |   |    |  |
| 10    |           | <p data-bbox="552 1458 979 1771">Seorang anak menjatuhkan sebuah batu dari ketinggian 20 m. Satu detik kemudian ia melemparkan sebuah batu lain ke bawah. Anggap tidak ada gesekan udara dan percepatan gravitasi <math>10 \text{ m/s}^2</math>. Jika kedua batu tersebut mencapai tanah bersamaan, maka kelajuan awal batu kedua adalah..</p> <p data-bbox="552 1794 979 1951">           a. 5 m/s<br/>           b. 15 m/s<br/>           c. 20 m/s         </p>  | <p data-bbox="995 1458 1402 1491">b. 15 m/s</p> <p data-bbox="995 1514 1402 1547">Diketahui:</p> <p data-bbox="995 1570 1402 1603"><math>h = 20 \text{ m}</math></p> <p data-bbox="995 1626 1402 1659"><math>g = 10 \text{ m/s}^2</math></p> <p data-bbox="995 1682 1402 1715">Ditanya :</p> <p data-bbox="995 1738 1402 1771">Kelajuan awal bwatu kedua?</p> <p data-bbox="995 1794 1402 1827">Jawab:</p> <p data-bbox="995 1850 1402 1883">Waktu untuk mencapai tanah</p> <p data-bbox="995 1906 1402 1984"><math>t_A = \sqrt{\frac{2h}{g}} = \sqrt{\frac{2(20)}{10}} = 2 \text{ s}</math></p> |   |    |       |   |    |  |



| No | Indikator   | Soal   | Jawaban  |
|----|---|--|--|
|    |   | d. 35 m/s<br>e. 40 m/s   | Jika selisih 1 detik maka waktu B tersisa<br>$t_B = t_A - 1 = 1 \text{ s}$ Benda B bergerak vertikal ke bawah<br>$h_B = h_0 - v_0 t - \frac{1}{2} g t^2$ $0 = 20 - v_0 - 5$ $v_0 = 15 \text{ m/s}$   |
| 11 | 2.4Membuat persamaan gerak suatu benda pada gerak lurus berubah beraturan | Bola X yang jatuh bebas dari ketinggian D bertabrakan dengan bola Y yang dilemparkan ke atas dari tanah dengan kelajuan awal v. Persamaan waktu yang mewakili tabrakan berlangsung adalah...<br>a. $t = \sqrt{\frac{D}{2g}}$<br>b. $t = \sqrt{\frac{2D}{g}}$<br>c. $t = \frac{2D}{v}$<br>d. $t = \frac{D}{2v}$<br>e. $t = \frac{D}{v}$ | e. $t = \frac{D}{v}$<br>Diketahui:<br> Ditanya:<br>Persamaan waktu (t)<br>Jawab:<br>Benda X merupakan gerak jatuh bebas sehingga:<br>$h_x = h_0 - \frac{1}{2} g t^2$ $h_x = D - \frac{1}{2} g t^2$ Benda Y merupakan gerak vertikal ke atas, maka:<br>$h_y = v_0 t - \frac{1}{2} g t^2$ $h_y = vt - \frac{1}{2} g t^2$ |

| No        | Indikator  | Soal   | Jawaban   |            |   |   |   |   |   |   |   |   |   |    |   |
|-----------|------------|--|---|------------|---|---|---|---|---|---|---|---|---|----|---|
|           |            |  | <p>Dimana <math>h_x = h_y</math>, maka:</p> $D - \frac{1}{2}gt^2 = vt - \frac{1}{2}gt^2$ $D = vt$ $t = \frac{D}{v}$ |            |   |   |   |   |   |   |   |   |   |    |   |
| 12        |            | <p>Seorang mahasiswa melakukan percobaan gerak lurus dengan mengukur posisi benda pada setiap detiknya. Berikut adalah data yang diperoleh dari percobaan tersebut:</p> <table border="1" data-bbox="552 1361 804 1715"> <thead> <tr> <th>Waktu (s)</th> <th>Posisi (m)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>2</td> </tr> <tr> <td>1</td> <td>4</td> </tr> <tr> <td>2</td> <td>6</td> </tr> <tr> <td>3</td> <td>8</td> </tr> <tr> <td>4</td> <td>10</td> </tr> </tbody> </table> <p>Grafik posisi terhadap waktu yang menggambarkan persamaan matematis dari gerak benda tersebut adalah...</p> | Waktu (s)   | Posisi (m) | 0 | 2 | 1 | 4 | 2 | 6 | 3 | 8 | 4 | 10 | <p>a.</p>  |
| Waktu (s) | Posisi (m) |  |   |            |   |   |   |   |   |   |   |   |   |    |   |
| 0         | 2          |  |   |            |   |   |   |   |   |   |   |   |   |    |   |
| 1         | 4          |  |   |            |   |   |   |   |   |   |   |   |   |    |   |
| 2         | 6          |  |   |            |   |   |   |   |   |   |   |   |   |    |   |
| 3         | 8          |  |   |            |   |   |   |   |   |   |   |   |   |    |   |
| 4         | 10         |  |   |            |   |   |   |   |   |   |   |   |   |    |   |

| No | Indikator | Soal   | Jawaban |
|----|-----------|--|---------|
|    |           | <p>a.</p>  <p>b.</p>  <p>c.</p>  |         |

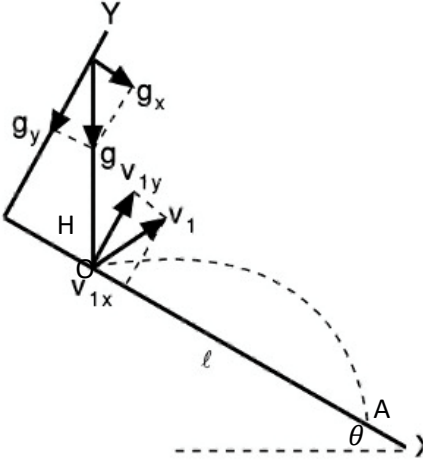
| No | Indikator   | Soal   | Jawaban  |
|----|---|--|--|
|    |   | <p>d.</p>  <p>e.</p>   |  |
| 13 | 2.5<br>Merumuskan persamaan gerak suatu benda pada gerak parabola | Sebuah bola bergerak membentuk lintasan parabola. Tinggi maksimum yang dicapai bola adalah $y$ , dan percepatan gravitasi bola adalah $g$ . apabila bola bergerak dengan sudut $53^\circ$ terhadap tanah, kecepatan awal bola adalah...m/s | $\frac{\sqrt{2yg}}{0,8} \text{ m/s}$ <p>Pembahasan :</p> <p>diketahui :</p> <p>Tinggi maksimum <math>y</math></p> <p>Percepatan gravitasi <math>g</math></p> |

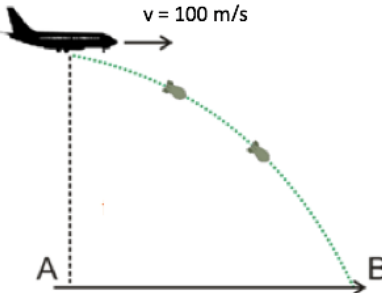
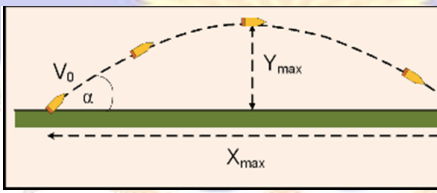
| No | Indikator | Soal   | Jawaban  |
|----|-----------|--|--|
|    |           | <p>a. <math>\frac{\sqrt{yg}}{0,4}</math></p> <p>b. <math>\frac{\sqrt{yg}}{0,8}</math></p> <p>c. <math>\frac{\sqrt{yg}}{0,6}</math></p> <p>d. <math>\frac{\sqrt{2yg}}{0,8}</math></p> <p>e. <math>\frac{\sqrt{2yg}}{0,6}</math></p> | <p>sudut <math>\theta = 53^\circ</math></p> <p>Ditanya :</p> <p>Kecepatan awal <math>v_0 = ?</math></p> <p>Jawab:</p> <p>Kecepatan adalah jarak yang ditempuh oleh partikel tiap satuan waktu. Gerak parabola merupakan gerak suatu partikel yang secara serentak melakukan dua gerak lurus (GLB dan GLBB) yang saling tegak lurus. Gerak lurus beraturan terjadi pada sumbu-X dan gerak lurus berubah beraturan terjadi pada sumbu-Y.</p> <p>Dengan mensubstitusikan besaran pada masing-masing gerak, besarnya tinggi maksimum yang ditempuh oleh benda yang mengalami lintasan parabola adalah</p> $y_{maks} = \frac{v_0^2 \sin^2 \theta}{2g}$ $y = \frac{v_0^2 \sin^2 53}{2g}$ $(y)(2g) = v_0^2 \sin^2 53$ $2yg = v_0^2 \sin^2 53$ $\frac{2yg}{\sin 53 \sin 53} = v_0^2$ $\frac{2yg}{(0,8)(0,8)} = v_0^2$ $\frac{2yg}{0,64} = v_0^2$ |

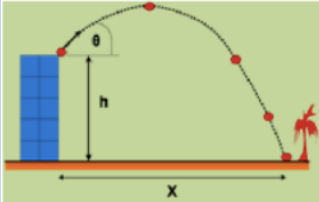
| No | Indikator | Soal   | Jawaban   |
|----|-----------|--|---|
|    |           |  | $\sqrt{\frac{2yg}{0,64}} = v_0$ $\frac{1}{0,8} \sqrt{2yg} = v_0$ $\frac{\sqrt{2yg}}{0,8} = v_0$ <p>jadi, kecepatan awal bola adalah <math>\frac{\sqrt{2yg}}{0,8} \text{ m/s}</math></p>   |
| 14 |           | <p>Bola dilepaskan dari ketinggian <math>h</math> di atas permukaan tanah. Bersamaan dengan pelepasan bola A, benda B diberi kecepatan vertikal ke atas sebesar <math>v</math> dari permukaan tanah. Percepatan gravitasi <math>g</math>. Agar A dan B mencapai tanah pada saat yang sama harus dipenuhi hubungan...</p> <p>a. <math>h = \frac{4v^2}{g}</math></p> <p>b. <math>h = \frac{2v^2}{3g}</math></p> <p>c. <math>h = \frac{v^2}{2g}</math></p> <p>d. <math>h = \frac{2v^2}{g}</math></p> <p>e. <math>h = \frac{2v^2}{2g}</math></p> | <p>d. <math>h = \frac{2v^2}{g}</math></p> <p>Diketahui :</p> <p><math>v_{0A} = 0</math></p> <p><math>h_A = h</math></p> <p><math>v_{0B} = v</math></p> <p>Ditanyakan : <math>h</math>?</p> <p>Jawab</p> <p>Waktu yang digunakan bola A untuk sampai ke tanah sama dengan waktu yang digunakan bola B untuk bergerak ke atas kemudian kembali turun ke tanah,</p> $h_A = v_{0A}t + \frac{1}{2}gt^2$ $h = v_{0A}t + \frac{1}{2}gt^2$ $h = 0 + \frac{1}{2}gt^2 \dots \text{(Persamaan 1)}$ <p>Waktu yang diperlukan untuk bola B sampai dipuncak (menempuh <math>h_B</math>)</p> $h_B = v_{0B}t - \frac{1}{2}gt^2$ |

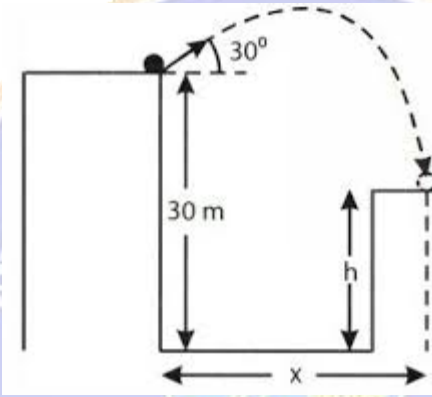


| No | Indikator | Soal   | Jawaban   |
|----|-----------|--|---|
|    |           |  | $h_{B1} = v t - \frac{1}{2}gt^2 \quad (h_{B1} = h_{B2})$ $h_{B2} = 0 + \frac{1}{2}gt^2$ $h_{B1} = h_{B2}$ $v t - \frac{1}{2}gt^2 = \frac{1}{2}gt^2$ $vt = gt^2$ $t = v/g$ <p>waktu yang diperlukan bola B untuk kembali ke tanah sebesar <math>t = 2v/g</math></p> <p>masukan nilai t pada persamaan 1. Sehingga</p> $h = \frac{1}{2}gt^2$ $h = \frac{1}{2}g\left(\frac{2v}{g}\right)^2$ $h = 2\frac{v^2}{g}$ |
| 15 |           | <p>Bola dijatuhkan tanpa kecepatan awal dari ketinggian H pada sebuah bukit. Bukit tersebut mempunyai kemiringan <math>\theta</math> terhadap arah horizontal. Setelah bola menyentuh tanah, bola memantul dan membentuk gerak parabola dari titik O ke titik A seperti gambar di bawah ini.</p> | <p>b. <math>8H \sin \theta</math></p> <p>Penyelesaian:</p> <p>Waktu yang diperlukan bola menyentuh tanah adalah :</p> $t = \sqrt{\frac{2H}{g}} \dots \text{(Persamaan 1)}$ <p>Kecepatan bola saat memantul :</p> $v = \sqrt{2gH} \dots \text{(Persamaan 2)}$ <p>Persamaan gerak dari titik O ke titik A arah sumbu Y :</p> $y = v_y t + \frac{1}{2}a_y t^2$   |

| No | Indikator | Soal  | Jawaban  |
|----|-----------|---|--|
|    |           |  <p>Jarak yang ditempuh bola dari titik O ke titik A adalah...</p> <ol style="list-style-type: none"> <li><math>x = 8 H</math></li> <li><math>x = 8H \sin \theta</math></li> <li><math>x = 4 H</math></li> <li><math>x = 4H \sin \theta</math></li> <li><math>x = 12 H</math></li> </ol> | $0 = v \cos \theta t - \frac{1}{2} g \cos \theta t^2$ $gt^2 - 2vt = 0 \dots \text{(Persamaan 3)}$ <p>Substitusi persanaaan 2 ke persamaan 3, hingga:</p> $gt^2 - 2(\sqrt{2gH})t = 0$ $t(gt - 2\sqrt{2gH}) = 0$ <p>...(Persamaan 4)</p> <p>Berdasarkan persamaan 4 akan berlaku:</p> $t = 0$ $gt - 2\sqrt{2gH} = 0$ $t = 2\sqrt{\frac{2H}{g}} \dots \text{(Persamaan 5)}$ <p>persamaan gerak bola pada arah sumbu x adalah</p> $x = v_x t + \frac{1}{2} a_x t^2$ $x = v \sin \theta t + \frac{1}{2} g \sin \theta t^2$ <p>...(Persamaan 6)</p> <p>Persamaan 2 dan persamaan 5 disubstitusikan ke persamaan 6</p> $x = v \sin \theta t + \frac{1}{2} g \sin \theta t^2$ $x = \sqrt{2gH} \sin \theta \left( 2\sqrt{\frac{2H}{g}} + \frac{1}{2} g \sin \theta 2\sqrt{\frac{2H}{g}} \right)^2$ $x = 4H \sin \theta + \frac{1}{2} g \sin \theta \left( 4\frac{2H}{g} \right)$ $x = 8H \sin \theta$ |
| 16 |           | Perhatikan gambar di bawah ini!   | b. 1000 m  |

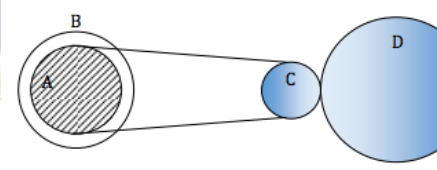
| No | Indikator                         | Soal   | Jawaban   |
|----|-----------------------------------|--|---|
|    | 2.6 Mengenal jenis gerak parabola |  <p>Sebuah pesawat terbang bergerak mendatar dengan kecepatan 100 m/s melepaskan bantuan dari ketinggian 500 m. Jika bantuan jatuh di B dan <math>g = 10 \text{ m/s}^2</math>. Jarak AB adalah...</p> <p>a. 500 m<br/>b. 1000 m<br/>c. 2000 m<br/>d. 3000 m<br/>e. 4000 m</p>   | <p>Diketahui :</p> <p><math>v_{ab} = 100 \text{ m/s}</math><br/><math>h = 500 \text{ m}</math><br/><math>g = 10 \text{ m/s}^2</math></p> <p>Ditanya:<br/>x.ab?</p> <p>Jawab:</p> $t = \sqrt{\frac{2h}{g}}$ $t = \sqrt{\frac{2(500)}{10}}$ $t = 10 \text{ s}$ <p>Selanjutnya,<br/><math>x_{ab} = v_{ab} \times t</math><br/><math>x_{ab} = 100 \times 10</math><br/><math>x_{ab} = 1000 \text{ m}</math></p>   |
| 17 |                                   | <p>Perhatikan gambar di bawah ini!</p>  <p>Sebuah meriam menembakkan peluru dengan kelajuan awal 100 m/s dan sudut elevasi <math>37^\circ</math>. Jika percepatan gravitasi bumi <math>10 \text{ m/s}^2</math>, <math>\sin 37^\circ = 3/5</math> dan <math>\cos 37^\circ = 4/5</math>. Jarak mendatar peluru saat <math>t = 1</math> sekon adalah...</p> <p>a. 50 m<br/>b. 60 m<br/>c. 80 m<br/>d. 100 m<br/>e. 120 m</p> | <p>c. 80 m</p> <p>Diketahui :</p> <p><math>v_0 = 100 \text{ m/s}</math><br/><math>\theta = 37^\circ</math></p> <p>Ditanya :</p> <p>Tinggi peluru saat <math>t = 1</math> sekon</p> <p>Penyelesaian :</p> <p>Tinggi peluru saat <math>t = 1</math> sekon<br/>Saat 1 sekon ketinggian peluru namakan saja Y</p> $y = v_0 \cdot \sin \theta \cdot t - \frac{1}{2} \cdot g \cdot t^2$ $y = 100 \cdot \frac{3}{5} \cdot 1 - \frac{1}{2} \cdot 10 \cdot 1^2$ $y = 55 \text{ m}$ |

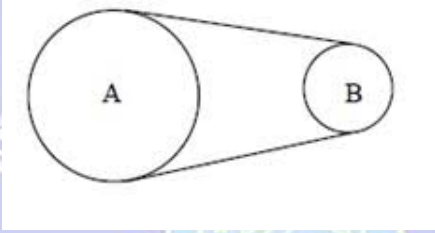
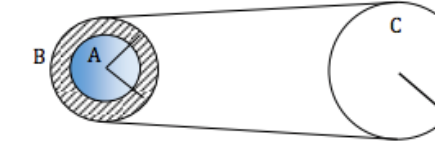
| No | Indikator | Soal   | Jawaban  |
|----|-----------|--|--|
|    |           |  | <p>Jarak mendatar peluru saat <math>t = 1</math> sekon Saat 1 sekon jarak mendatar peluru namakan saja <math>x</math></p> $x = v_0 \cdot \cos \theta \cdot t$ $x = 100 \cdot \frac{4}{5} \cdot 1$ $x = 80 \text{ m}$ <p>Jadi tinggi peluru pada saat 1 sekon adalah 55 meter dan jarak mendatar yang ditempuh peluru pada saat 1 sekon adalah 80 meter.</p>  |
| 18 |           | <p>Perhatikan gambar di bawah ini!</p>  <p>Sebuah bola dilontarkan dari atap sebuah gedung yang tingginya adalah <math>h = 10 \text{ m}</math> dengan kelajuan awal <math>V_0 = 10 \text{ m/s}</math>. Jika percepatan gravitasi bumi adalah <math>10 \text{ m/s}^2</math>, sudut yang terbentuk antara arah lemparan bola dengan arah horizontal adalah <math>60^\circ</math> dan gesekan bola dengan udara diabaikan. Waktu yang diperlukan bola untuk menyentuh tanah adalah...</p> <p>a. 2 s<br/>b. 5 s<br/>c. 10 s<br/>d. 20 s</p> | <p>Diketahui :</p> <p><math>h = 10 \text{ m}</math><br/> <math>v_0 = 10 \text{ m/s}</math><br/> <math>g = 10 \text{ m/s}^2</math><br/> <math>\theta = 37^\circ</math></p> <p>Ditanya :</p> <p>Jarak maksimum yang dicapai bola secara horisontal</p> <p>Penyelesaian :</p> <p>Waktu yang diperlukan bola untuk menyentuh tanah ketinggian gedung <math>h</math> atau sama dengan <math>Y</math> disini, sehingga:</p> $y = v_0 \cdot \sin \theta \cdot t - \frac{1}{2} \cdot g \cdot t^2$ $-10 = 10 \cdot \frac{1}{2} \cdot t - \frac{1}{2} \cdot 10 \cdot t^2$ $5t^2 - 5t - 10 = 0$ |

| No | Indikator      | Soal  | Jawaban  |
|----|----------------|---|--|
|    |                | e. 25 s   | $t^2 - t - 2 = 0$ $(t - 2)(t + 1) = 0$ $t = 2 \text{ s}$ <p>ambil nilai positif sehingga <math>t = 2</math> sekon</p>  |
| 19 |                | <p>Sebuah batu dilempar dari atas tebing setinggi 30 m dengan kecepatan 20 m/s berarah <math>30^\circ</math> terhadap horizontal seperti gambar di bawah ini</p>  <p>Batu mendarat di tebing lain setinggi <math>h</math>, setelah 3 s. Jika <math>x</math> adalah jarak antara posisi melempar dengan posisi mendarat maka perbandingan <math>h</math> dan <math>x</math> adalah...</p> <p>a. <math>1 : 2\sqrt{3}</math><br/> b. <math>1:2</math><br/> c. <math>2\sqrt{3} : 1</math><br/> d. <math>3 : 2\sqrt{3}</math><br/> e. <math>5 : 2\sqrt{3}</math></p> | <p>a. <math>1 : 2\sqrt{3}</math></p> <p>Diketahui:</p> $h_0 = 30 \text{ m}$ $v_0 = 20 \text{ m/s}$ $\theta = 30^\circ$ $t = 3 \text{ sekon}$ <p>Ditanya :</p> <p>Perbandingan <math>h</math> dan <math>x</math></p> <p>Jawab:</p> $h = h_0 - v_{0y}t - \frac{1}{2}gt^2$ $h = 30 - 20 \sin 30^\circ (3) - \frac{1}{2}(10)(3)^2$ $h = 15 \text{ m}$ <p>Sedangkan nilai <math>x</math> adalah:</p> $x = v_{0x} \cdot t$ $x = 20 \cdot \cos 30^\circ \cdot 3$ $x = 30\sqrt{3}$ <p>Sehingga :</p> $h : x$ <p>Maka :</p> $15 : 30\sqrt{3} = 1 : 2\sqrt{3}$ |
| 20 | 2.7 Menentukan | Sebuah kelereng bergerak mengelilingi baskom berbentuk  | c. $\frac{5\pi}{6} \text{ m/s}$ dan $\frac{25\pi^2}{18} \text{ m/s}^2$   |

| No | Indikator                             | Soal  | Jawaban   |
|----|---------------------------------------|---|---|
|    | gerak melingkar dengan kelajuan tetap | <p>lingkaran berdiameter 1 m. Jika kelereng memiliki kecepatan sudut tetap sebesar <math>\frac{100\pi}{60} \text{ rad/s}</math>. Kecepatan linier dan percepatan sentripetal kelereng adalah...</p> <p>a. 50 m/s dan 2500 m/s<sup>2</sup><br/> b. <math>\frac{5\pi}{3}</math> m/s dan <math>\frac{25\pi^2}{18}</math> m/s<sup>2</sup><br/> c. <math>\frac{5\pi}{6}</math> m/s dan <math>\frac{25\pi^2}{18}</math> m/s<sup>2</sup><br/> d. <math>\frac{5\pi}{12}</math> m/s dan <math>\frac{25\pi^2}{36}</math> m/s<sup>2</sup><br/> e. <math>\frac{5\pi}{12}</math> m/s dan <math>\frac{25\pi^2}{60}</math> m/s<sup>2</sup></p> | <p>Diketahui</p> <p><math>d = 1 \text{ m}</math></p> <p><math>R = 0,5 \text{ m}</math></p> <p><math>\omega = \frac{100\pi}{60} \text{ rad/s}</math></p> <p>Ditanya :</p> <p>Kecepatan linier dan percepatan sentripetal</p> <p>Jawab:</p> <p>Penyelesaian untuk kecepatan linier</p> <p><math>v = \omega R</math></p> <p><math>v = \frac{100\pi}{60} (0,5)</math></p> <p><math>v = \frac{5\pi}{6} \text{ m/s}</math></p> <p>Penyelesaian untuk percepatan sentripetal</p> <p><math>a.s = v^2/R</math></p> <p><math>a.s = \frac{\frac{5\pi^2}{6}}{0,5}</math></p> <p><math>a.s = \frac{25\pi^2}{18}</math></p> |
| 21 |                                       | <p>Dari keadaan diam, benda tegar melakukan gerak rotasi dengan percepatan sudut 15 rad/s<sup>2</sup>. Titik A berada pada benda tersebut, berjarak 10 cm dari sumbu putar. Tepat setelah benda berotasi selama 0,4 sekon, titik A mengalami percepatan total sebesar...</p> <p>a. 1,5 m/s<sup>2</sup></p>  | <p>d. 3,9 m/s<sup>2</sup></p> <p>Diketahui :</p> <p><math>\alpha = 15 \text{ rad/s}^2</math></p> <p><math>R = 10 \text{ cm}</math></p> <p><math>T = 0,4 \text{ s}</math></p> <p>Ditanya:</p>  |



| No | Indikator                           | Soal   | Jawaban  |
|----|-------------------------------------|--|--|
|    |                                     | b. 2,1 m/s <sup>2</sup><br>c. 3,6 m/s <sup>2</sup><br>d. 3,9 m/s <sup>2</sup><br>e. 4,1 m/s <sup>2</sup>   | Percepatan total?<br>Jawab:<br>$a_{total} = \sqrt{a_{linier}^2 + a_{sp}^2}$ Dimana<br>$a_{linier} = \alpha R = 15(0,1) = 1,5 \text{ m/s}^2$ Jika<br>$\omega_t = \omega_0 + \alpha t = 0 + 15(0,4) = 6 \text{ rad/s}$ Maka<br>$v = \omega R = 6(0,1) = 0,6 \text{ m/s}$ $a_{sp} = \frac{v^2}{R} = \frac{(0,6)^2}{0,1} = 3,6 \text{ m/s}^2$ Sehingga<br>$a_{total} = \sqrt{1,5^2 + 3,6^2}$ $a_{total} = 3,9 \text{ m/s}^2$ |
| 22 | 2.8<br>Menganalisis gerak melingkar | Perhatikan gambar di bawah ini!<br><br>Jari-jari roda A = 30 cm, roda B = 40 cm, roda C = 25 cm, dan roda D = 50 cm. Roda B berputar dengan kecepatan anguler 50 rad/s. Kecepatan anguler roda D adalah ...<br>A. 80 rad/s<br>B. 60 rad/s<br>C. 50 rad/s<br>D. 40 rad/s | D. 40 rad/s<br>Diketahui :<br>$R_A = 30 \text{ cm}$<br>$R_B = 40 \text{ cm}$<br>$R_C = 25 \text{ cm}$<br>$R_D = 50 \text{ cm}$<br>$\omega_B = 50 \text{ rad/s}$<br>Ditanya:<br>Kecepatan anguler roda D?<br>Jawab:<br>Roda B dan C terhubung dengan tali maka:   |

| No | Indikator | Soal   | Jawaban  |
|----|-----------|--|--|
|    |           | E. 30 rad/s  | $v_B = v_C$ $\omega_B R_b = \omega_C R_c$ $\omega_C = \frac{\omega_B R_b}{R_c} = \frac{50.40}{25} = 80 \text{ rad/s}$ <p>Roda C dan D bersinggungan, maka:</p> $v_C = v_D$ $\omega_C R_C = \omega_D R_D$ $\omega_D = \frac{\omega_C R_C}{R_D} = \frac{80.25}{50} = 40 \text{ rad/s}$ |
| 23 |           | <p>Perhatikan gambar di bawah ini!</p>  <p>Dua roda A dan B dihubungkan dengan pita, jika jari-jari roda A sebesar 2 kali jari-jari roda B, jika roda bergerak searah jarum jam dan kecepatan angular roda bergantung pada jari-jari roda tersebut, persamaan yang tepat adalah...</p> <p>a. <math>v_a = 2v_b</math><br/> b. <math>v_a = \frac{1}{2}v_b</math><br/> c. <math>v_a = v_b</math><br/> d. <math>\omega_a = \omega_b</math><br/> e. <math>v_a = \omega_b</math></p> | <p>c. <math>v_a = v_b</math></p> <p>Pada gambar tersebut terlihat bahwa hubungan roda adalah satu tali, sehingga yang diperhatikan bahwa kecepatan linearnya selalu sama tanpa melihat arah gerak roda dan jari-jari roda yang berbeda dari roda A dan roda B</p>                    |
| 24 |           | <p>Perhatikan gambar di bawah ini!</p>    | <p>d. 5: 1</p> <p>Diketahui:</p> $R_A = 2 \text{ cm}$ $R_B = 4 \text{ cm}$ $R_C = 20 \text{ cm}$   |

| No | Indikator | Soal   | Jawaban   |
|----|-----------|--|---|
|    |           | <p>Tiga buah roda dihubungkan seperti gambar di bawah. Roda A dan B seporos. Sedangkan roda B dan roda C dihubungkan dengan sabuk. Jika <math>R_A = 2 \text{ cm}</math>, <math>R_B = 4 \text{ cm}</math>, dan <math>R_C = 20 \text{ cm}</math> maka perbandingan kecepatan sudut roda B dan C adalah ...</p> <p>a. 1 : 5<br/>b. 2 : 1<br/>c. 2 : 5<br/>d. 5 : 1<br/>e. 2 : 4</p>                                 | <p>Ditanya:<br/>perbandingan kecepatan sudut roda B dan C?</p> <p>Jawab:<br/>Sehubungan roda B dengan roda C setali artinya kecepatan liniernya sama. Sehingga</p> $v_B = v_C$ $\omega_B R_B = \omega_C R_C$ $\omega_B (4) = \omega_C (20)$ $\omega_B : \omega_C = 20 : 4$ $\omega_B : \omega_C = 5 : 1$ <p>Sehingga perbandingannya adalah sebesar 5:1</p> |
| 25 |           | <p>Sebuah benda bermassa 2 kg berputar dengan kecepatan <math>4\pi \text{ rad/s}</math>. Jika jari-jari putaran benda adalah 5 meter, maka percepatan sentripetal gerak benda adalah...</p> <p>a. <math>42\pi^2 \text{ m/s}^2</math><br/>b. <math>68\pi^2 \text{ m/s}^2</math><br/>c. <math>80\pi^2 \text{ m/s}^2</math><br/>d. <math>90\pi^2 \text{ m/s}^2</math><br/>e. <math>98\pi^2 \text{ m/s}^2</math></p> | <p>c. <math>80\pi^2 \text{ m/s}^2</math><br/>Diketahui :<br/><math>\omega = 4\pi \text{ rad/s}</math>   <math>r = 5 \text{ m}</math>   <math>m = 2 \text{ kg}</math><br/>Ditanya : Percepatan sentripetal (a.sp)?<br/>Jawab:<br/>a.sp = <math>\omega^2 r</math><br/>a.sp = <math>(4\pi)^2 (5)</math><br/>a.sp = <math>80\pi^2 \text{ m/s}^2</math></p>      |

## Lampiran 14

## DATA HASIL UJI COBA TES HASIL BELAJAR

| Responden | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R1        | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 1  | 0  | 1  | 1  |
| R2        | 0           | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1  | 1  | 0  | 0  | 0  | 0  |
| R3        | 1           | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0  | 1  | 1  | 1  | 1  | 1  |
| R4        | 0           | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0  | 1  | 0  | 0  | 1  | 0  |
| R5        | 0           | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1  | 0  | 1  | 0  | 1  | 0  |
| R6        | 0           | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0  | 0  | 1  | 0  | 0  | 0  |
| R7        | 0           | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1  | 0  | 0  | 0  | 1  | 0  |
| R8        | 1           | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0  | 0  | 0  | 0  | 0  | 1  |
| R9        | 1           | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R10       | 1           | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1  | 0  | 1  | 1  | 0  | 0  |
| R11       | 0           | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1  | 1  | 1  | 1  | 0  | 1  |
| R12       | 1           | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1  | 0  | 0  | 1  | 1  | 1  |
| R13       | 1           | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R14       | 0           | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0  | 0  | 1  | 1  | 0  | 1  |
| R15       | 0           | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1  | 1  | 0  | 1  | 0  | 0  |
| R16       | 1           | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1  | 1  | 1  | 1  | 0  | 0  |
| R17       | 0           | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1  | 1  | 1  | 1  | 1  | 1  |
| R18       | 0           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 0  | 1  | 0  |
| R19       | 1           | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1  | 1  | 1  | 0  | 1  | 0  |
| R20       | 1           | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0  | 0  | 1  | 0  | 1  | 0  |
| R21       | 1           | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1  | 0  | 1  | 0  | 1  | 1  |
| R22       | 1           | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0  | 1  | 0  | 0  | 0  | 0  |
| R23       | 0           | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 0  | 1  |
| R24       | 0           | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1  | 0  | 1  | 0  | 0  | 0  |
| R25       | 0           | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0  | 0  | 1  | 0  | 0  | 0  |
| R26       | 0           | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0  | 0  | 0  | 0  | 0  | 0  |
| R27       | 1           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 1  | 1  | 1  | 1  | 1  |
| R28       | 0           | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1  | 1  | 1  | 0  | 1  | 1  |
| R29       | 0           | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0  | 0  | 0  | 1  | 1  | 1  |

| Responden | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R30       | 1           | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0  | 0  | 1  | 0  | 1  | 0  |
| R31       | 0           | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 1  |
| R32       | 0           | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0  | 0  | 0  | 0  | 0  | 0  |
| R33       | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0  | 0  | 0  | 0  | 1  | 1  |
| R34       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 1  | 0  | 1  | 1  | 1  |
| R35       | 0           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0  | 0  | 1  | 1  | 1  | 0  |
| R36       | 1           | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0  | 1  | 0  | 1  | 1  | 1  |
| R37       | 0           | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1  | 0  | 0  | 0  | 0  | 1  |
| R38       | 0           | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0  | 0  | 1  | 0  | 1  | 0  |
| R39       | 1           | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0  | 1  | 0  | 0  | 1  | 0  |
| R40       | 1           | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1  | 1  | 1  | 1  | 1  | 0  |
| R41       | 1           | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0  | 1  | 0  | 0  | 1  | 1  |
| R42       | 0           | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 0  | 0  | 1  |
| R43       | 0           | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0  | 0  | 1  | 0  | 1  | 1  |
| R44       | 0           | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1  | 0  | 0  | 1  | 0  | 1  |
| R45       | 1           | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1  | 1  | 0  | 1  | 0  | 0  |
| R46       | 0           | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1  | 0  | 1  | 0  | 1  | 1  |
| R47       | 1           | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1  | 1  | 1  | 0  | 1  | 0  |
| R48       | 1           | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R49       | 0           | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1  | 1  | 1  | 1  | 0  | 0  |
| R50       | 0           | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1  | 0  | 0  | 1  | 0  | 0  |
| R51       | 1           | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0  | 0  | 1  | 1  | 0  | 0  |
| R52       | 0           | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1  | 1  | 1  | 0  | 1  | 1  |
| R53       | 0           | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0  | 0  | 0  | 0  | 1  | 0  |
| R54       | 1           | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1  | 0  | 1  | 1  | 1  | 0  |
| R55       | 1           | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0  | 0  | 1  | 0  | 0  | 1  |
| R56       | 1           | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1  | 1  | 0  | 0  | 1  | 0  |
| R57       | 1           | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1  | 1  | 1  | 0  | 0  | 1  |
| R58       | 0           | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0  | 0  | 0  | 1  | 1  | 1  |
| R59       | 0           | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0  | 0  | 0  | 0  | 1  | 0  |
| R60       | 0           | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1  | 1  | 0  | 0  | 1  | 1  |

| Responden | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R61       | 0           | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R62       | 1           | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0  | 1  | 0  | 0  | 0  | 0  |
| R63       | 1           | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1  | 1  | 0  | 1  | 0  | 1  |
| R64       | 1           | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1  | 1  | 1  | 1  | 0  | 1  |
| R65       | 0           | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0  | 0  | 1  | 0  | 1  | 1  |
| R66       | 0           | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1  | 0  | 1  | 1  | 1  | 0  |
| R67       | 0           | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0  | 0  | 0  | 0  | 0  | 1  |
| R68       | 1           | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1  | 1  | 1  | 1  | 1  | 1  |
| R69       | 0           | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0  | 1  | 0  | 1  | 1  | 0  |
| R70       | 1           | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0  | 1  | 0  | 1  | 1  | 0  |
| R71       | 0           | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0  | 0  | 1  | 0  | 0  | 0  |
| R72       | 0           | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1  | 0  | 0  | 1  | 1  | 0  |
| R73       | 0           | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1  | 1  | 1  | 0  | 1  | 0  |
| R74       | 1           | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1  | 1  | 0  | 1  | 0  | 0  |
| R75       | 0           | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0  | 1  | 0  | 0  | 0  | 0  |
| R76       | 0           | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1  | 1  | 0  | 0  | 1  | 0  |
| R77       | 1           | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1  | 1  | 0  | 1  | 1  | 1  |
| R78       | 0           | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0  | 0  | 0  | 1  | 1  | 0  |
| R79       | 1           | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1  | 1  | 1  | 0  | 0  | 0  |
| R80       | 0           | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1  | 0  | 0  | 0  | 0  | 0  |
| R81       | 1           | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0  | 1  | 1  | 1  | 0  | 0  |
| R82       | 0           | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0  | 0  | 0  | 0  | 0  | 0  |
| R83       | 0           | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1  | 0  | 0  | 0  | 1  | 1  |
| R84       | 0           | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0  | 0  | 1  | 0  | 0  | 1  |
| R85       | 0           | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0  | 1  | 0  | 1  | 0  | 1  |
| R86       | 0           | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0  | 1  | 0  | 1  | 0  | 0  |
| R87       | 0           | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1  | 0  | 0  | 0  | 0  | 1  |
| R88       | 1           | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1  | 1  | 0  | 1  | 1  | 0  |
| R89       | 0           | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0  | 0  | 1  | 1  | 1  | 0  |
| R90       | 1           | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1  | 1  | 0  | 1  | 0  | 0  |
| R91       | 0           | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0  | 1  | 0  | 1  | 1  | 1  |



| Responden | Nomor Butir |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R92       | 0           | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  |
| R93       | 1           | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1  | 1  | 0  | 0  | 0  | 0  |
| R94       | 1           | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0  | 0  | 1  | 0  | 0  | 1  |
| R95       | 0           | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1  | 0  | 0  | 1  | 1  | 0  |
| R96       | 0           | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0  | 1  | 1  | 0  | 1  | 1  |
| R97       | 0           | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1  | 0  | 1  | 1  | 1  | 0  |
| R98       | 0           | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1  | 0  | 1  | 1  | 0  | 0  |
| R99       | 0           | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1  | 1  | 0  | 0  | 1  | 1  |
| R100      | 0           | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0  | 1  | 1  | 1  | 0  | 0  |
| R101      | 0           | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0  | 0  | 1  | 0  | 1  | 0  |
| R102      | 0           | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1  | 0  | 0  | 1  | 0  | 0  |
| R103      | 1           | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0  | 0  | 0  | 0  | 0  | 0  |
| R104      | 1           | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1  | 0  | 0  | 0  | 0  | 0  |
| R105      | 1           | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0  | 1  | 0  | 1  | 1  | 0  |
| R106      | 0           | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0  | 1  | 1  | 0  | 1  | 0  |
| R107      | 0           | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1  | 1  | 0  | 0  | 0  | 0  |
| R108      | 0           | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1  | 1  | 0  | 0  | 0  | 0  |
| R109      | 0           | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  |
| R110      | 1           | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0  | 1  | 0  | 1  | 0  | 0  |
| R111      | 1           | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0  | 1  | 1  | 0  | 1  | 0  |
| R112      | 1           | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1  | 1  | 1  | 0  | 1  | 0  |
| R113      | 1           | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0  | 0  | 1  | 0  | 0  | 0  |
| R114      | 0           | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0  | 0  | 0  | 0  | 0  | 0  |
| R115      | 1           | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0  | 1  | 1  | 0  | 1  | 0  |
| R116      | 0           | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0  | 0  | 1  | 1  | 1  | 0  |
| R117      | 1           | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1  | 0  | 0  | 1  | 1  | 0  |
| R118      | 0           | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 1  | 0  | 0  | 0  | 0  |
| R119      | 0           | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1  | 0  | 0  | 0  | 0  | 0  |
| R120      | 1           | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 1  | 0  | 0  | 0  |

| Responden | Nomor Butir |    |    |    |    |    |    |    |    |    | Total |
|-----------|-------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R1        | 0           | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 1  | 0  | 5     |
| R2        | 1           | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 8     |
| R3        | 0           | 0  | 0  | 1  | 0  | 1  | 1  | 1  | 0  | 1  | 18    |
| R4        | 0           | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 7     |
| R5        | 0           | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 14    |
| R6        | 0           | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 10    |
| R7        | 0           | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 7     |
| R8        | 1           | 0  | 1  | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 11    |
| R9        | 1           | 0  | 1  | 1  | 0  | 1  | 1  | 1  | 0  | 1  | 19    |
| R10       | 0           | 0  | 1  | 1  | 0  | 1  | 1  | 1  | 0  | 1  | 16    |
| R11       | 1           | 0  | 1  | 1  | 0  | 1  | 1  | 0  | 0  | 1  | 15    |
| R12       | 1           | 0  | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 1  | 15    |
| R13       | 1           | 0  | 0  | 1  | 0  | 1  | 1  | 1  | 0  | 1  | 18    |
| R14       | 1           | 1  | 1  | 1  | 0  | 1  | 1  | 0  | 0  | 1  | 16    |
| R15       | 0           | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 7     |
| R16       | 1           | 0  | 1  | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 12    |
| R17       | 0           | 0  | 0  | 1  | 0  | 1  | 0  | 0  | 1  | 0  | 15    |
| R18       | 1           | 0  | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 1  | 17    |
| R19       | 0           | 1  | 0  | 1  | 0  | 1  | 1  | 1  | 1  | 0  | 16    |
| R20       | 0           | 0  | 1  | 1  | 0  | 0  | 0  | 1  | 1  | 1  | 14    |
| R21       | 0           | 1  | 1  | 1  | 1  | 0  | 1  | 1  | 0  | 1  | 17    |
| R22       | 1           | 0  | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 10    |
| R23       | 1           | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 15    |
| R24       | 0           | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 9     |
| R25       | 0           | 1  | 1  | 0  | 1  | 1  | 0  | 1  | 1  | 1  | 12    |
| R26       | 0           | 1  | 1  | 0  | 1  | 1  | 1  | 0  | 1  | 0  | 9     |
| R27       | 1           | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 11    |
| R28       | 1           | 1  | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 15    |
| R29       | 0           | 1  | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 0  | 10    |
| R30       | 0           | 1  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 7     |
| R31       | 0           | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 7     |

| Responden | Nomor Butir |    |    |    |    |    |    |    |    |    | Total |
|-----------|-------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R32       | 0           | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 6     |
| R33       | 0           | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 14    |
| R34       | 1           | 0  | 1  | 1  | 0  | 1  | 0  | 1  | 1  | 1  | 11    |
| R35       | 1           | 1  | 1  | 1  | 0  | 1  | 1  | 0  | 1  | 1  | 19    |
| R36       | 1           | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 12    |
| R37       | 0           | 1  | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 8     |
| R38       | 1           | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 1  | 1  | 18    |
| R39       | 0           | 0  | 0  | 1  | 0  | 1  | 0  | 0  | 1  | 1  | 12    |
| R40       | 1           | 0  | 1  | 0  | 0  | 0  | 1  | 1  | 0  | 1  | 14    |
| R41       | 1           | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 1  | 1  | 13    |
| R42       | 1           | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 1  | 14    |
| R43       | 1           | 0  | 1  | 1  | 0  | 1  | 1  | 1  | 0  | 1  | 14    |
| R44       | 1           | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 10    |
| R45       | 0           | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 7     |
| R46       | 1           | 1  | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 15    |
| R47       | 0           | 1  | 1  | 1  | 0  | 0  | 1  | 0  | 1  | 1  | 17    |
| R48       | 1           | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 15    |
| R49       | 1           | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 0  | 1  | 15    |
| R50       | 1           | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 0  | 10    |
| R51       | 0           | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 9     |
| R52       | 1           | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 0  | 1  | 14    |
| R53       | 1           | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 0  | 0  | 12    |
| R54       | 1           | 0  | 1  | 1  | 0  | 1  | 1  | 1  | 0  | 1  | 18    |
| R55       | 1           | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 10    |
| R56       | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 9     |
| R57       | 0           | 1  | 0  | 1  | 0  | 1  | 1  | 0  | 0  | 1  | 15    |
| R58       | 1           | 0  | 0  | 1  | 0  | 1  | 1  | 0  | 0  | 0  | 11    |
| R59       | 0           | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 8     |
| R60       | 0           | 1  | 1  | 0  | 0  | 0  | 1  | 0  | 1  | 1  | 14    |
| R61       | 1           | 1  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 18    |
| R62       | 1           | 0  | 1  | 1  | 0  | 1  | 1  | 0  | 0  | 1  | 15    |

| Responden | Nomor Butir |    |    |    |    |    |    |    |    |    | Total |
|-----------|-------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R63       | 1           | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 16    |
| R64       | 1           | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 16    |
| R65       | 1           | 1  | 0  | 1  | 1  | 0  | 1  | 1  | 1  | 1  | 16    |
| R66       | 1           | 0  | 0  | 1  | 1  | 0  | 1  | 0  | 0  | 0  | 15    |
| R67       | 0           | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 6     |
| R68       | 1           | 1  | 0  | 0  | 0  | 1  | 1  | 0  | 1  | 1  | 15    |
| R69       | 0           | 1  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 14    |
| R70       | 0           | 0  | 0  | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 11    |
| R71       | 0           | 0  | 0  | 0  | 1  | 1  | 0  | 1  | 0  | 1  | 9     |
| R72       | 0           | 1  | 0  | 1  | 1  | 0  | 1  | 0  | 1  | 0  | 13    |
| R73       | 1           | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 10    |
| R74       | 1           | 1  | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 0  | 12    |
| R75       | 1           | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 1  | 1  | 11    |
| R76       | 0           | 1  | 0  | 1  | 1  | 1  | 0  | 0  | 1  | 1  | 15    |
| R77       | 0           | 0  | 0  | 1  | 0  | 1  | 1  | 1  | 0  | 0  | 13    |
| R78       | 0           | 1  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 0  | 11    |
| R79       | 1           | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 1  | 1  | 14    |
| R80       | 0           | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 6     |
| R81       | 0           | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 9     |
| R82       | 0           | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 7     |
| R83       | 0           | 1  | 0  | 1  | 1  | 1  | 1  | 0  | 0  | 1  | 16    |
| R84       | 0           | 1  | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 9     |
| R85       | 1           | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 0  | 0  | 12    |
| R86       | 0           | 1  | 1  | 0  | 1  | 1  | 1  | 0  | 1  | 1  | 13    |
| R87       | 1           | 1  | 0  | 0  | 1  | 0  | 1  | 0  | 0  | 1  | 8     |
| R88       | 1           | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 15    |
| R89       | 1           | 1  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 11    |
| R90       | 0           | 0  | 1  | 0  | 1  | 0  | 1  | 1  | 1  | 0  | 14    |
| R91       | 0           | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 0  | 0  | 14    |
| R92       | 0           | 1  | 0  | 1  | 1  | 1  | 1  | 0  | 1  | 0  | 9     |
| R93       | 1           | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 13    |

| Responden | Nomor Butir |    |    |    |    |    |    |    |    |    | Total |
|-----------|-------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16          | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R94       | 0           | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 8     |
| R95       | 1           | 0  | 0  | 1  | 1  | 0  | 1  | 0  | 0  | 0  | 12    |
| R96       | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 9     |
| R97       | 0           | 1  | 0  | 1  | 0  | 0  | 1  | 1  | 1  | 0  | 11    |
| R98       | 1           | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 1  | 0  | 10    |
| R99       | 0           | 0  | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 10    |
| R100      | 0           | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 6     |
| R101      | 0           | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 7     |
| R102      | 0           | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 0  | 0  | 5     |
| R103      | 0           | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 1  | 1  | 11    |
| R104      | 0           | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 1  | 8     |
| R105      | 1           | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 1  | 1  | 17    |
| R106      | 0           | 1  | 1  | 1  | 0  | 1  | 0  | 0  | 0  | 1  | 9     |
| R107      | 1           | 1  | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 12    |
| R108      | 1           | 1  | 1  | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 13    |
| R109      | 0           | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 1  | 0  | 6     |
| R110      | 1           | 0  | 1  | 1  | 0  | 1  | 1  | 0  | 0  | 1  | 15    |
| R111      | 1           | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 1  | 12    |
| R112      | 1           | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 1  | 17    |
| R113      | 1           | 0  | 0  | 1  | 1  | 1  | 1  | 0  | 0  | 1  | 12    |
| R114      | 0           | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 0  | 6     |
| R115      | 0           | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 9     |
| R116      | 1           | 0  | 1  | 0  | 1  | 0  | 0  | 0  | 1  | 0  | 10    |
| R117      | 0           | 1  | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 13    |
| R118      | 0           | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 4     |
| R119      | 1           | 0  | 1  | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 13    |
| R120      | 1           | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 8     |

## Lampiran 15

## OUTPUT SPSS STATISTIC UNTUK ANALISIS KONSISTENSI

## A. Analisis Konsisten Internal Butir Tes

| Correlations |                     |        |
|--------------|---------------------|--------|
|              |                     | Total  |
| SOAL_1       | Pearson Correlation | .284** |
|              | Sig. (2-tailed)     | 0,002  |
|              | N                   | 120    |
| SOAL_2       | Pearson Correlation | .205*  |
|              | Sig. (2-tailed)     | 0,025  |
|              | N                   | 120    |
| SOAL_3       | Pearson Correlation | .319** |
|              | Sig. (2-tailed)     | 0,000  |
|              | N                   | 120    |
| SOAL_4       | Pearson Correlation | .323** |
|              | Sig. (2-tailed)     | 0,000  |
|              | N                   | 120    |
| SOAL_5       | Pearson Correlation | .327** |
|              | Sig. (2-tailed)     | 0,000  |
|              | N                   | 120    |
| SOAL_6       | Pearson Correlation | .284** |
|              | Sig. (2-tailed)     | 0,002  |
|              | N                   | 120    |
| SOAL_7       | Pearson Correlation | .296** |
|              | Sig. (2-tailed)     | 0,001  |
|              | N                   | 120    |
| SOAL_8       | Pearson Correlation | .257** |
|              | Sig. (2-tailed)     | 0,005  |
|              | N                   | 120    |
| SOAL_9       | Pearson Correlation | .414** |
|              | Sig. (2-tailed)     | 0,000  |
|              | N                   | 120    |
| SOAL_10      | Pearson Correlation | .328** |
|              | Sig. (2-tailed)     | 0,000  |
|              | N                   | 120    |
| SOAL_11      | Pearson Correlation | .315** |
|              | Sig. (2-tailed)     | 0,000  |
|              | N                   | 120    |
| SOAL_12      | Pearson Correlation | .294** |
|              | Sig. (2-tailed)     | 0,001  |
|              | N                   | 120    |
| SOAL_13      | Pearson Correlation | .288** |
|              | Sig. (2-tailed)     | 0,001  |
|              | N                   | 120    |
| SOAL_14      | Pearson Correlation | .391** |
|              | Sig. (2-tailed)     | 0,000  |
|              | N                   | 120    |
| SOAL_15      | Pearson Correlation | .233*  |
|              | Sig. (2-tailed)     | 0,010  |
|              | N                   | 120    |



| Correlations   |                     |        |
|--|---------------------|--------|
|  |                     | Total  |
| SOAL_16  | Pearson Correlation | .439** |
|  | Sig. (2-tailed)     | 0,000  |
|  | N                   | 120    |
| SOAL_17  | Pearson Correlation | 0,161  |
|  | Sig. (2-tailed)     | 0,078  |
|  | N                   | 120    |
| SOAL_18  | Pearson Correlation | .232*  |
|  | Sig. (2-tailed)     | 0,011  |
|  | N                   | 120    |
| SOAL_19  | Pearson Correlation | .481** |
|  | Sig. (2-tailed)     | 0,000  |
|  | N                   | 120    |
| SOAL_20  | Pearson Correlation | -0,101 |
|  | Sig. (2-tailed)     | 0,272  |
|  | N                   | 120    |
| SOAL_21  | Pearson Correlation | .310** |
|  | Sig. (2-tailed)     | 0,001  |
|  | N                   | 120    |
| SOAL_22  | Pearson Correlation | .320** |
|  | Sig. (2-tailed)     | 0,000  |
|  | N                   | 120    |
| SOAL_23  | Pearson Correlation | .247** |
|  | Sig. (2-tailed)     | 0,006  |
|  | N                   | 120    |
| SOAL_24  | Pearson Correlation | 0,027  |
|  | Sig. (2-tailed)     | 0,766  |
|  | N                   | 120    |
| SOAL_25  | Pearson Correlation | .545** |
|  | Sig. (2-tailed)     | 0,000  |
|  | N                   | 120    |
| **. Correlation is significant at the 0.01 level (2-tailed). |                     |        |
| *. Correlation is significant at the 0.05 level (2-tailed).  |                     |        |

## B. Analisis Reliabilitas Tes Prestasi Belajar

Analisis reliabilitas tes prestasi belajar fisika menggunakan *IBM SPSS Statistic Version 26* dengan hasil yang diperoleh sebagai berikut.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| 0,648                  | 25         |

Nilai dari *Cronbach's Alpha* sebesar 0,648 ( $0,648 > 0,60$ ) menunjukkan bahwa tes prestasi belajar fisika yang diuji memiliki reliabilitas yang tinggi (sujerweni,2004). Hasil ini menunjukkan bahwa tes prestasi belajar fisika sudah lolos uji reliabilitas dan dinyatakan layak digunakan untuk pengambilan data penelitian.



## Lampiran 16

**REKAPITULASI ANALISIS UJI HASIL KONSISTENSI  
INTERNAL BUTIR TES HASIL BELAJAR FISIKA**

**A. Analisis Konsistensi Internal Butir**

Berikut tabel analisis internal butir tes prestasi belajar fisika dengan responden berjumlah 120 siswa dan taraf signifikansi 0,05 dengan  $dk = n - 2$

| No. Butir | Nilai r hitung ( $r_{xy}$ ) | Nilai r tabel ( $r_{tabel}$ ) | Keterangan           | Kualifikasi | Keputusan |
|-----------|-----------------------------|-------------------------------|----------------------|-------------|-----------|
| 1         | 0,284                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 2         | 0,205                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 3         | 0,319                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 4         | 0,323                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 5         | 0,327                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 6         | 0,284                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 7         | 0,296                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 8         | 0,257                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 9         | 0,414                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 10        | 0,328                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 11        | 0,315                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 12        | 0,294                       | 0,179                         | $r_{xy} < r_{tabel}$ | Valid       | Diterima  |
| 13        | 0,288                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 14        | 0,391                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 15        | 0,233                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 16        | 0,439                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 17        | 0,161                       | 0,179                         | $r_{xy} < r_{tabel}$ | Tidak Valid | Ditolak   |
| 18        | 0,232                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 19        | 0,481                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 20        | -0,101                      | 0,179                         | $r_{xy} > r_{tabel}$ | Tidak Valid | Ditolak   |
| 21        | 0,310                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 22        | 0,320                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Ditolak   |
| 23        | 0,248                       | 0,179                         | $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| 24        | 0,028                       | 0,179                         | $r_{xy} > r_{tabel}$ | Tidak Valid | Ditolak   |
| 25        | 0,545                       | 0,179                         | $r_{xy} < r_{tabel}$ | Valid       | Diterima  |

Kriteria Konsisten Internal Butir

| Keterangan           | Kualifikasi | Keputusan |
|----------------------|-------------|-----------|
| $r_{xy} > r_{tabel}$ | Valid       | Diterima  |
| $r_{xy} < r_{tabel}$ | Tidak Valid | Ditolak   |

Berdasarkan hasil analisis konsistensi internal butir tes prestasi belajar fisika, butir tes prestasi belajar fisika yang diterima sejumlah 22 butir dan butir tes prestasi belajar fisika yang gugur sejumlah 3 butir dan karena keterbatasan waktu maka yang digunakan dalam penelitian sejumlah 20 butir dengan semua indikator terwakili.



## Lampiran 17

## HASIL ANALISIS INDEKS KESUKARAN BUTIR (IKB)

## A. Data Kelompok Atas

| Responden | No.Butir Soal |   |   |   |   |   |   |   |   |    |
|-----------|---------------|---|---|---|---|---|---|---|---|----|
|           | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| R9        | 1             | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1  |
| R35       | 0             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0  |
| R3        | 1             | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0  |
| R13       | 1             | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1  |
| R38       | 0             | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0  |
| R54       | 1             | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1  |
| R61       | 0             | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1  |
| R18       | 0             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |
| R21       | 1             | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1  |
| R47       | 1             | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1  |
| R105      | 1             | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0  |
| R112      | 1             | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1  |
| R10       | 1             | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1  |
| R14       | 0             | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0  |
| R19       | 1             | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1  |
| R63       | 1             | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1  |
| R64       | 1             | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1  |
| R65       | 0             | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0  |
| R83       | 0             | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1  |
| R11       | 0             | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1  |
| R12       | 1             | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1  |
| R17       | 0             | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1  |
| R23       | 0             | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |
| R28       | 0             | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1  |
| R46       | 0             | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1  |
| R48       | 1             | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1  |
| R49       | 0             | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1  |
| R57       | 1             | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1  |
| R62       | 1             | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0  |
| R66       | 0             | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1  |
| R68       | 1             | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1  |
| R76       | 0             | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1  |
| R88       | 1             | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1  |
| R110      | 1             | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0  |
| R5        | 0             | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1  |
| R20       | 1             | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0  |
| R33       | 1             | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0  |
| R40       | 1             | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1  |

| Responden    | No.Butir Soal |           |           |           |           |           |           |           |           |           |
|--------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|              | 1             | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        |
| R42          | 0             | 1         | 0         | 0         | 0         | 1         | 1         | 1         | 1         | 1         |
| R43          | 0             | 0         | 1         | 1         | 1         | 0         | 1         | 0         | 0         | 0         |
| R52          | 0             | 0         | 1         | 1         | 0         | 0         | 1         | 0         | 1         | 1         |
| R60          | 0             | 0         | 0         | 1         | 1         | 0         | 1         | 1         | 1         | 1         |
| R69          | 0             | 1         | 0         | 1         | 0         | 1         | 0         | 0         | 1         | 0         |
| R79          | 1             | 1         | 1         | 0         | 1         | 0         | 0         | 0         | 1         | 1         |
| R90          | 1             | 0         | 1         | 0         | 1         | 1         | 1         | 1         | 0         | 1         |
| R91          | 0             | 1         | 0         | 0         | 1         | 1         | 0         | 0         | 1         | 0         |
| R41          | 1             | 1         | 1         | 0         | 0         | 1         | 0         | 0         | 1         | 0         |
| R72          | 0             | 0         | 1         | 0         | 1         | 1         | 0         | 1         | 1         | 1         |
| R77          | 1             | 0         | 1         | 0         | 0         | 0         | 1         | 0         | 1         | 1         |
| R86          | 0             | 0         | 1         | 1         | 0         | 0         | 1         | 0         | 1         | 0         |
| R93          | 1             | 0         | 1         | 0         | 0         | 1         | 1         | 1         | 0         | 1         |
| R108         | 0             | 0         | 1         | 0         | 0         | 1         | 1         | 1         | 1         | 1         |
| R117         | 1             | 1         | 1         | 0         | 1         | 0         | 0         | 0         | 1         | 1         |
| R119         | 0             | 1         | 0         | 1         | 1         | 1         | 1         | 0         | 1         | 1         |
| R16          | 1             | 0         | 0         | 0         | 0         | 1         | 0         | 1         | 1         | 1         |
| R25          | 0             | 1         | 1         | 0         | 0         | 0         | 1         | 0         | 1         | 0         |
| R36          | 1             | 0         | 0         | 0         | 1         | 0         | 1         | 1         | 1         | 0         |
| R39          | 1             | 1         | 1         | 1         | 0         | 0         | 0         | 1         | 1         | 0         |
| R53          | 0             | 1         | 1         | 1         | 0         | 1         | 1         | 0         | 0         | 0         |
| R74          | 1             | 1         | 0         | 0         | 1         | 1         | 0         | 1         | 0         | 1         |
| <b>Total</b> | <b>32</b>     | <b>36</b> | <b>44</b> | <b>36</b> | <b>37</b> | <b>37</b> | <b>41</b> | <b>39</b> | <b>44</b> | <b>41</b> |

| Responden | No.Butir Soal |    |    |    |    |    |    |    |    |    |
|-----------|---------------|----|----|----|----|----|----|----|----|----|
|           | 11            | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| R9        | 1             | 1  | 1  | 1  | 1  | 1  | 0  | 1  | 1  | 0  |
| R35       | 0             | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 1  | 0  |
| R3        | 1             | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 0  |
| R13       | 1             | 1  | 1  | 1  | 1  | 1  | 0  | 0  | 1  | 0  |
| R38       | 0             | 1  | 0  | 1  | 0  | 1  | 1  | 1  | 1  | 0  |
| R54       | 0             | 1  | 1  | 1  | 0  | 1  | 0  | 1  | 1  | 0  |
| R61       | 1             | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 0  | 0  |
| R18       | 1             | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 1  | 0  |
| R21       | 0             | 1  | 0  | 1  | 1  | 0  | 1  | 1  | 1  | 1  |
| R47       | 1             | 1  | 0  | 1  | 0  | 0  | 1  | 1  | 1  | 0  |
| R105      | 1             | 0  | 1  | 1  | 0  | 1  | 0  | 1  | 1  | 0  |
| R112      | 1             | 1  | 0  | 1  | 0  | 1  | 1  | 1  | 1  | 1  |
| R10       | 1             | 0  | 1  | 1  | 0  | 0  | 0  | 1  | 1  | 0  |
| R14       | 0             | 1  | 1  | 0  | 1  | 1  | 1  | 1  | 1  | 0  |
| R19       | 1             | 1  | 0  | 1  | 0  | 0  | 1  | 0  | 1  | 0  |
| R63       | 1             | 0  | 1  | 0  | 1  | 1  | 1  | 1  | 0  | 0  |
| R64       | 1             | 1  | 1  | 0  | 1  | 1  | 0  | 0  | 1  | 1  |



| Responden | No.Butir Soal |    |    |    |    |    |    |    |    |    |
|-----------|---------------|----|----|----|----|----|----|----|----|----|
|           | 11            | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| R65       | 0             | 1  | 0  | 1  | 1  | 1  | 1  | 0  | 1  | 1  |
| R83       | 0             | 0  | 0  | 1  | 1  | 0  | 1  | 0  | 1  | 1  |
| R11       | 1             | 1  | 1  | 0  | 1  | 1  | 0  | 1  | 1  | 0  |
| R12       | 0             | 0  | 1  | 1  | 1  | 1  | 0  | 0  | 1  | 0  |
| R17       | 1             | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 0  |
| R23       | 1             | 1  | 1  | 0  | 1  | 1  | 0  | 1  | 1  | 0  |
| R28       | 1             | 1  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| R46       | 0             | 1  | 0  | 1  | 1  | 1  | 1  | 1  | 0  | 0  |
| R48       | 1             | 1  | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 0  |
| R49       | 1             | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 1  | 0  |
| R57       | 1             | 1  | 0  | 0  | 1  | 0  | 1  | 0  | 1  | 0  |
| R62       | 1             | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 1  | 0  |
| R66       | 0             | 1  | 1  | 1  | 0  | 1  | 0  | 0  | 1  | 1  |
| R68       | 1             | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 0  | 0  |
| R76       | 1             | 0  | 0  | 1  | 0  | 0  | 1  | 0  | 1  | 1  |
| R88       | 1             | 0  | 1  | 1  | 0  | 1  | 0  | 0  | 0  | 0  |
| R110      | 1             | 0  | 1  | 0  | 0  | 1  | 0  | 1  | 1  | 0  |
| R5        | 0             | 1  | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 1  |
| R20       | 0             | 1  | 0  | 1  | 0  | 0  | 0  | 1  | 1  | 0  |
| R33       | 0             | 0  | 0  | 1  | 1  | 0  | 1  | 1  | 1  | 0  |
| R40       | 1             | 1  | 1  | 1  | 0  | 1  | 0  | 1  | 0  | 0  |
| R42       | 1             | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  |
| R43       | 0             | 1  | 0  | 1  | 1  | 1  | 0  | 1  | 1  | 0  |
| R52       | 1             | 1  | 0  | 1  | 1  | 1  | 0  | 1  | 1  | 0  |
| R60       | 1             | 0  | 0  | 1  | 1  | 0  | 1  | 1  | 0  | 0  |
| R69       | 1             | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 1  | 1  |
| R79       | 1             | 1  | 0  | 0  | 0  | 1  | 0  | 1  | 1  | 0  |
| R90       | 1             | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 1  |
| R91       | 1             | 0  | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 0  |
| R41       | 1             | 0  | 0  | 1  | 1  | 1  | 0  | 1  | 0  | 0  |
| R72       | 0             | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 1  | 1  |
| R77       | 1             | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 0  |
| R86       | 1             | 0  | 1  | 0  | 0  | 0  | 1  | 1  | 0  | 1  |
| R93       | 1             | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 0  |
| R108      | 1             | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 0  |
| R117      | 0             | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 1  | 1  |
| R119      | 0             | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 1  | 1  |
| R16       | 1             | 1  | 1  | 0  | 0  | 1  | 0  | 1  | 1  | 0  |
| R25       | 0             | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 1  |
| R36       | 1             | 0  | 1  | 1  | 1  | 1  | 0  | 0  | 1  | 0  |
| R39       | 1             | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 0  |
| R53       | 0             | 0  | 0  | 1  | 0  | 1  | 0  | 0  | 1  | 1  |
| R74       | 1             | 0  | 1  | 0  | 0  | 1  | 1  | 0  | 1  | 0  |

| Responden    | No.Butir Soal |           |           |           |           |           |           |           |           |           |
|--------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|              | 11            | 12        | 13        | 14        | 15        | 16        | 17        | 18        | 19        | 20        |
| <b>Total</b> | <b>41</b>     | <b>34</b> | <b>32</b> | <b>41</b> | <b>28</b> | <b>38</b> | <b>28</b> | <b>33</b> | <b>46</b> | <b>17</b> |



| Responden | No.Butir Soal |    |    |    |    | Total |
|-----------|---------------|----|----|----|----|-------|
|           | 21            | 22 | 23 | 24 | 25 |       |
| R9        | 1             | 1  | 1  | 0  | 1  | 19    |
| R35       | 1             | 1  | 0  | 1  | 1  | 19    |
| R3        | 1             | 1  | 1  | 0  | 1  | 18    |
| R13       | 1             | 1  | 1  | 0  | 1  | 18    |
| R38       | 1             | 1  | 1  | 1  | 1  | 18    |
| R54       | 1             | 1  | 1  | 0  | 1  | 18    |
| R61       | 1             | 1  | 1  | 1  | 1  | 18    |
| R18       | 1             | 0  | 1  | 0  | 1  | 17    |
| R21       | 0             | 1  | 1  | 0  | 1  | 17    |
| R47       | 0             | 1  | 0  | 1  | 1  | 17    |
| R105      | 0             | 1  | 0  | 1  | 1  | 17    |
| R112      | 0             | 0  | 0  | 0  | 1  | 17    |
| R10       | 1             | 1  | 1  | 0  | 1  | 16    |
| R14       | 1             | 1  | 0  | 0  | 1  | 16    |
| R19       | 1             | 1  | 1  | 1  | 0  | 16    |
| R63       | 0             | 0  | 0  | 0  | 1  | 16    |
| R64       | 1             | 0  | 0  | 0  | 1  | 16    |
| R65       | 0             | 1  | 1  | 1  | 1  | 16    |
| R83       | 1             | 1  | 0  | 0  | 1  | 16    |
| R11       | 1             | 1  | 0  | 0  | 1  | 15    |
| R12       | 0             | 1  | 0  | 0  | 1  | 15    |
| R17       | 1             | 0  | 0  | 1  | 0  | 15    |
| R23       | 0             | 0  | 0  | 0  | 1  | 15    |
| R28       | 1             | 0  | 0  | 0  | 1  | 15    |
| R46       | 0             | 1  | 0  | 0  | 0  | 15    |
| R48       | 1             | 1  | 0  | 0  | 0  | 15    |
| R49       | 1             | 0  | 0  | 0  | 1  | 15    |
| R9        | 1             | 1  | 0  | 0  | 1  | 15    |
| R35       | 1             | 1  | 0  | 0  | 1  | 15    |
| R3        | 0             | 1  | 0  | 0  | 0  | 15    |
| R13       | 1             | 1  | 0  | 1  | 1  | 15    |
| R38       | 1             | 0  | 0  | 1  | 1  | 15    |
| R54       | 0             | 0  | 1  | 0  | 1  | 15    |
| R61       | 1             | 1  | 0  | 0  | 1  | 15    |
| R18       | 1             | 1  | 1  | 1  | 0  | 14    |
| R21       | 0             | 0  | 1  | 1  | 1  | 14    |
| R47       | 0             | 0  | 0  | 1  | 0  | 14    |
| R105      | 0             | 1  | 1  | 0  | 1  | 14    |

| Responden | No.Butir Soal |    |    |    |    | Total |
|-----------|---------------|----|----|----|----|-------|
|           | 21            | 22 | 23 | 24 | 25 |       |
| R112      | 1             | 1  | 1  | 0  | 1  | 14    |
| R10       | 1             | 1  | 1  | 0  | 1  | 14    |
| R14       | 0             | 1  | 0  | 0  | 1  | 14    |
| R19       | 0             | 1  | 0  | 1  | 1  | 14    |
| R63       | 1             | 1  | 1  | 1  | 0  | 14    |
| R64       | 0             | 1  | 0  | 1  | 1  | 14    |
| R65       | 0             | 1  | 1  | 1  | 0  | 14    |
| R83       | 1             | 1  | 1  | 0  | 0  | 14    |
| R11       | 1             | 0  | 0  | 1  | 1  | 13    |
| R12       | 0             | 1  | 0  | 1  | 0  | 13    |
| R17       | 1             | 1  | 1  | 0  | 0  | 13    |
| R23       | 1             | 1  | 0  | 1  | 1  | 13    |
| R28       | 1             | 1  | 0  | 0  | 1  | 13    |
| R46       | 1             | 0  | 1  | 0  | 0  | 13    |
| R48       | 1             | 0  | 0  | 0  | 1  | 13    |
| R49       | 1             | 1  | 0  | 0  | 0  | 13    |
| R57       | 0             | 0  | 1  | 0  | 0  | 12    |
| R62       | 1             | 0  | 1  | 1  | 1  | 12    |
| R66       | 0             | 0  | 0  | 1  | 0  | 12    |
| R68       | 1             | 0  | 0  | 1  | 1  | 12    |
| R76       | 1             | 1  | 1  | 0  | 0  | 12    |
| R88       | 0             | 1  | 0  | 0  | 0  | 12    |
| R110      | 38            | 41 | 25 | 23 | 42 | 894   |
| R5        | 1             | 1  | 1  | 0  | 1  | 19    |
| R20       | 1             | 1  | 0  | 1  | 1  | 19    |
| R33       | 1             | 1  | 1  | 0  | 1  | 18    |
| R40       | 1             | 1  | 1  | 0  | 1  | 18    |
| R42       | 1             | 1  | 1  | 1  | 1  | 18    |
| R43       | 1             | 1  | 1  | 0  | 1  | 18    |
| R52       | 1             | 1  | 1  | 1  | 1  | 18    |
| R60       | 1             | 0  | 1  | 0  | 1  | 17    |
| R69       | 0             | 1  | 1  | 0  | 1  | 17    |
| R79       | 0             | 1  | 0  | 1  | 1  | 17    |
| R90       | 0             | 1  | 0  | 1  | 1  | 17    |
| R91       | 0             | 0  | 0  | 0  | 1  | 17    |
| R41       | 1             | 1  | 1  | 0  | 1  | 16    |
| R72       | 1             | 1  | 0  | 0  | 1  | 16    |

| Responden | No.Butir Soal |    |    |    |    | Total |
|-----------|---------------|----|----|----|----|-------|
|           | 21            | 22 | 23 | 24 | 25 |       |
| R77       | 1             | 1  | 1  | 1  | 0  | 16    |
| R86       | 0             | 0  | 0  | 0  | 1  | 16    |
| R93       | 1             | 0  | 0  | 0  | 1  | 16    |
| R108      | 0             | 1  | 1  | 1  | 1  | 16    |
| R117      | 1             | 1  | 0  | 0  | 1  | 16    |
| R119      | 1             | 1  | 0  | 0  | 1  | 15    |
| R16       | 0             | 1  | 0  | 0  | 1  | 15    |
| R25       | 1             | 0  | 0  | 1  | 0  | 15    |
| R36       | 0             | 0  | 0  | 0  | 1  | 15    |
| R39       | 1             | 0  | 0  | 0  | 1  | 15    |
| R53       | 0             | 1  | 0  | 0  | 0  | 15    |
| R74       | 1             | 1  | 0  | 0  | 0  | 15    |
| Total     | 1             | 0  | 0  | 0  | 1  | 15    |
| R57       | 1             | 1  | 0  | 0  | 1  | 15    |
| R62       | 1             | 1  | 0  | 0  | 1  | 15    |
| R66       | 0             | 1  | 0  | 0  | 0  | 15    |
| R68       | 1             | 1  | 0  | 1  | 1  | 15    |
| R76       | 1             | 0  | 0  | 1  | 1  | 15    |
| R88       | 0             | 0  | 1  | 0  | 1  | 15    |
| R110      | 1             | 1  | 0  | 0  | 1  | 15    |
| R5        | 1             | 1  | 1  | 1  | 0  | 14    |
| R20       | 0             | 0  | 1  | 1  | 1  | 14    |
| R33       | 0             | 0  | 0  | 1  | 0  | 14    |
| R40       | 0             | 1  | 1  | 0  | 1  | 14    |
| R42       | 1             | 1  | 1  | 0  | 1  | 14    |
| R43       | 1             | 1  | 1  | 0  | 1  | 14    |
| R52       | 0             | 1  | 0  | 0  | 1  | 14    |
| R60       | 0             | 1  | 0  | 1  | 1  | 14    |
| R69       | 1             | 1  | 1  | 1  | 0  | 14    |
| R79       | 0             | 1  | 0  | 1  | 1  | 14    |
| R90       | 0             | 1  | 1  | 1  | 0  | 14    |
| R91       | 1             | 1  | 1  | 0  | 0  | 14    |
| R41       | 1             | 0  | 0  | 1  | 1  | 13    |
| R72       | 0             | 1  | 0  | 1  | 0  | 13    |
| R77       | 1             | 1  | 1  | 0  | 0  | 13    |
| R86       | 1             | 1  | 0  | 1  | 1  | 13    |
| R93       | 1             | 1  | 0  | 0  | 1  | 13    |

| Responden    | No.Butir Soal |           |           |           |           | Total      |
|--------------|---------------|-----------|-----------|-----------|-----------|------------|
|              | 21            | 22        | 23        | 24        | 25        |            |
| R108         | 1             | 0         | 1         | 0         | 0         | 13         |
| R117         | 1             | 0         | 0         | 0         | 1         | 13         |
| R119         | 1             | 1         | 0         | 0         | 0         | 13         |
| R16          | 0             | 0         | 1         | 0         | 0         | 12         |
| R25          | 1             | 0         | 1         | 1         | 1         | 12         |
| R36          | 0             | 0         | 0         | 1         | 0         | 12         |
| R39          | 1             | 0         | 0         | 1         | 1         | 12         |
| R53          | 1             | 1         | 1         | 0         | 0         | 12         |
| R74          | 0             | 1         | 0         | 0         | 0         | 12         |
| <b>Total</b> | <b>38</b>     | <b>41</b> | <b>25</b> | <b>23</b> | <b>42</b> | <b>894</b> |

**B. Data  
Kelompok  
Bawah**

| Responden | No.Butir Soal |   |   |   |   |   |   |   |   |    |
|-----------|---------------|---|---|---|---|---|---|---|---|----|
|           | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| R85       | 0             | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0  |
| R95       | 0             | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1  |
| R107      | 0             | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1  |
| R111      | 1             | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0  |
| R113      | 1             | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0  |
| R8        | 1             | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0  |
| R27       | 1             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| R34       | 0             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| R58       | 0             | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0  |
| R70       | 1             | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0  |
| R75       | 0             | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0  |
| R78       | 0             | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0  |
| R89       | 0             | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0  |
| R97       | 0             | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1  |
| R103      | 1             | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0  |
| R6        | 0             | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0  |
| R22       | 1             | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0  |
| R29       | 0             | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0  |
| R44       | 0             | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1  |
| R50       | 0             | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1  |
| R55       | 1             | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0  |
| R73       | 0             | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1  |
| R98       | 0             | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1  |
| R99       | 0             | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1  |
| R116      | 0             | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0  |
| R24       | 0             | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1  |
| R26       | 0             | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0  |
| R51       | 1             | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0  |
| R56       | 1             | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1  |



| Responden    | No.Butir Soal |    |    |    |    |    |    |    |    |    |
|--------------|---------------|----|----|----|----|----|----|----|----|----|
|              | 1             | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| R71          | 0             | 0  | 1  | 0  | 0  | 0  | 1  | 1  | 1  | 0  |
| R81          | 1             | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 0  |
| R84          | 0             | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 0  |
| R92          | 0             | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 0  | 0  |
| R96          | 0             | 0  | 1  | 0  | 0  | 0  | 1  | 1  | 1  | 0  |
| R106         | 0             | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  |
| R115         | 1             | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  |
| R2           | 0             | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 1  |
| R37          | 0             | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 1  |
| R59          | 0             | 0  | 0  | 1  | 1  | 0  | 1  | 0  | 1  | 0  |
| R87          | 0             | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 1  |
| R94          | 1             | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  |
| R104         | 1             | 0  | 1  | 0  | 0  | 1  | 1  | 1  | 0  | 1  |
| R120         | 1             | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  |
| R4           | 0             | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 0  |
| R7           | 0             | 1  | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 1  |
| R15          | 0             | 0  | 0  | 1  | 0  | 0  | 0  | 1  | 0  | 1  |
| R30          | 1             | 1  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  |
| R31          | 0             | 0  | 1  | 1  | 0  | 1  | 0  | 0  | 0  | 0  |
| R45          | 1             | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  |
| R82          | 0             | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 0  |
| R101         | 0             | 1  | 1  | 0  | 1  | 0  | 0  | 0  | 0  | 0  |
| R32          | 0             | 0  | 0  | 1  | 0  | 0  | 1  | 0  | 1  | 0  |
| R67          | 0             | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 0  |
| R80          | 0             | 1  | 1  | 0  | 1  | 1  | 0  | 0  | 0  | 1  |
| R100         | 0             | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  |
| R109         | 0             | 1  | 0  | 1  | 0  | 1  | 1  | 0  | 0  | 0  |
| R114         | 0             | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 1  | 0  |
| R1           | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| R102         | 0             | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 1  |
| R118         | 0             | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| <b>Total</b> | 17            | 19 | 26 | 24 | 22 | 19 | 29 | 30 | 19 | 19 |

| Responden | No.Butir Soal |    |    |    |    |    |    |    |    |    |
|-----------|---------------|----|----|----|----|----|----|----|----|----|
|           | 11            | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| R85       | 1             | 0  | 1  | 0  | 1  | 1  | 1  | 0  | 1  | 0  |
| R95       | 0             | 0  | 1  | 1  | 0  | 1  | 0  | 0  | 1  | 1  |
| R107      | 1             | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 1  | 1  |
| R111      | 1             | 1  | 0  | 1  | 0  | 1  | 0  | 1  | 1  | 1  |
| R113      | 0             | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 1  | 1  |
| R8        | 0             | 0  | 0  | 0  | 1  | 1  | 0  | 1  | 0  | 0  |
| R27       | 1             | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 0  |
| R34       | 1             | 0  | 1  | 1  | 1  | 1  | 0  | 1  | 1  | 0  |
| R58       | 0             | 0  | 1  | 1  | 1  | 1  | 0  | 0  | 1  | 0  |

| Responden   | No.Butir Soal |    |    |    |    |    |    |    |    |    |
|-------------|---------------|----|----|----|----|----|----|----|----|----|
|             | 11            | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| <b>R70</b>  | 1             | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 1  | 1  |
| <b>R75</b>  | 1             | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 1  |
| <b>R78</b>  | 0             | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 0  | 0  |
| <b>R89</b>  | 0             | 1  | 1  | 1  | 0  | 1  | 1  | 0  | 0  | 1  |
| <b>R97</b>  | 0             | 1  | 1  | 1  | 0  | 0  | 1  | 0  | 1  | 0  |
| <b>R103</b> | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  |
| <b>R6</b>   | 0             | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  |
| <b>R22</b>  | 1             | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 0  |
| <b>R29</b>  | 0             | 0  | 1  | 1  | 1  | 0  | 1  | 0  | 0  | 0  |
| <b>R44</b>  | 0             | 0  | 1  | 0  | 1  | 1  | 0  | 0  | 0  | 0  |
| <b>R50</b>  | 0             | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 0  | 0  |
| <b>R55</b>  | 0             | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  |
| <b>R73</b>  | 1             | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 0  | 0  |
| <b>R98</b>  | 0             | 1  | 1  | 0  | 0  | 1  | 0  | 0  | 0  | 0  |
| <b>R99</b>  | 1             | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 0  |
| <b>R116</b> | 0             | 1  | 1  | 1  | 0  | 1  | 0  | 1  | 0  | 1  |
| <b>R24</b>  | 0             | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  |
| <b>R26</b>  | 0             | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 1  |
| <b>R51</b>  | 0             | 1  | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 0  |
| <b>R56</b>  | 1             | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  |
| <b>R71</b>  | 0             | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  |
| <b>R81</b>  | 1             | 1  | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 0  |
| <b>R84</b>  | 0             | 1  | 0  | 0  | 1  | 0  | 1  | 1  | 0  | 0  |
| <b>R92</b>  | 0             | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 1  |
| <b>R96</b>  | 1             | 1  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  |
| <b>R106</b> | 1             | 1  | 0  | 1  | 0  | 0  | 1  | 1  | 1  | 0  |
| <b>R115</b> | 1             | 1  | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 0  |
| <b>R2</b>   | 1             | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 0  |
| <b>R37</b>  | 0             | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 0  | 0  |
| <b>R59</b>  | 0             | 0  | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 0  |
| <b>R87</b>  | 0             | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 1  |
| <b>R94</b>  | 0             | 1  | 0  | 0  | 1  | 0  | 0  | 0  | 1  | 1  |
| <b>R104</b> | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| <b>R120</b> | 0             | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  |
| <b>R4</b>   | 1             | 0  | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 0  |
| <b>R7</b>   | 0             | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 0  |
| <b>R15</b>  | 1             | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 0  |
| <b>R30</b>  | 0             | 1  | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 1  |
| <b>R31</b>  | 0             | 0  | 0  | 0  | 1  | 0  | 0  | 1  | 1  | 0  |
| <b>R45</b>  | 1             | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| <b>R82</b>  | 0             | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  |
| <b>R101</b> | 0             | 1  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  |
| <b>R32</b>  | 0             | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  |
| <b>R67</b>  | 0             | 0  | 0  | 0  | 1  | 0  | 0  | 1  | 0  | 0  |
| <b>R80</b>  | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  |
| <b>R100</b> | 1             | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 1  |
| <b>R109</b> | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| <b>R114</b> | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 1  |

| Responden    | No.Butir Soal |    |    |    |    |    |    |    |    |    |
|--------------|---------------|----|----|----|----|----|----|----|----|----|
|              | 11            | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| <b>R1</b>    | 0             | 1  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 1  |
| <b>R102</b>  | 0             | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 1  |
| <b>R118</b>  | 1             | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  |
| <b>Total</b> | 21            | 24 | 20 | 23 | 17 | 21 | 20 | 19 | 19 | 21 |



| Responden | No.Butir Soal |    |    |    |    | Total |
|-----------|---------------|----|----|----|----|-------|
|           | 21            | 22 | 23 | 24 | 25 |       |
| R85       | 1             | 0  | 0  | 0  | 0  | 12    |
| R95       | 0             | 1  | 0  | 0  | 0  | 12    |
| R107      | 1             | 0  | 0  | 0  | 0  | 12    |
| R111      | 0             | 0  | 0  | 0  | 1  | 12    |
| R113      | 1             | 1  | 0  | 0  | 1  | 12    |
| R8        | 1             | 1  | 1  | 0  | 0  | 11    |
| R27       | 1             | 1  | 0  | 0  | 0  | 11    |
| R34       | 1             | 0  | 1  | 1  | 1  | 11    |
| R58       | 1             | 1  | 0  | 0  | 0  | 11    |
| R70       | 1             | 0  | 1  | 1  | 1  | 11    |
| R75       | 1             | 1  | 0  | 1  | 1  | 11    |
| R78       | 1             | 1  | 1  | 1  | 0  | 11    |
| R89       | 0             | 0  | 0  | 0  | 0  | 11    |
| R97       | 0             | 1  | 1  | 1  | 0  | 11    |
| R103      | 0             | 1  | 0  | 1  | 1  | 11    |
| R6        | 0             | 1  | 0  | 1  | 0  | 10    |
| R22       | 0             | 1  | 0  | 0  | 0  | 10    |
| R29       | 1             | 0  | 1  | 0  | 0  | 10    |
| R44       | 0             | 0  | 1  | 0  | 1  | 10    |
| R50       | 1             | 1  | 1  | 1  | 0  | 10    |
| R55       | 0             | 1  | 0  | 1  | 0  | 10    |
| R73       | 0             | 0  | 1  | 1  | 0  | 10    |
| R98       | 1             | 0  | 0  | 1  | 0  | 10    |
| R99       | 0             | 1  | 0  | 0  | 0  | 10    |
| R116      | 0             | 0  | 0  | 1  | 0  | 10    |
| R24       | 0             | 0  | 0  | 1  | 0  | 9     |
| R26       | 1             | 1  | 0  | 1  | 0  | 9     |
| R51       | 0             | 0  | 0  | 0  | 0  | 9     |
| R56       | 0             | 0  | 0  | 1  | 1  | 9     |
| R71       | 1             | 0  | 1  | 0  | 1  | 9     |
| R81       | 0             | 0  | 0  | 1  | 1  | 9     |
| R84       | 0             | 1  | 0  | 0  | 0  | 9     |
| R92       | 1             | 1  | 0  | 1  | 0  | 9     |
| R96       | 0             | 0  | 0  | 1  | 0  | 9     |
| R106      | 1             | 0  | 0  | 0  | 1  | 9     |
| R115      | 1             | 0  | 0  | 0  | 0  | 9     |
| R2        | 0             | 0  | 1  | 0  | 1  | 8     |
| R37       | 1             | 1  | 1  | 0  | 0  | 8     |
| R59       | 0             | 0  | 0  | 1  | 1  | 8     |
| R87       | 0             | 1  | 0  | 0  | 1  | 8     |
| R94       | 1             | 0  | 0  | 0  | 0  | 8     |
| R104      | 0             | 1  | 0  | 0  | 1  | 8     |
| R120      | 1             | 1  | 0  | 0  | 0  | 8     |
| R4        | 0             | 0  | 1  | 0  | 0  | 7     |

|              |           |           |           |           |           |            |
|--------------|-----------|-----------|-----------|-----------|-----------|------------|
| <b>R7</b>    | 0         | 0         | 0         | 0         | 0         | <b>7</b>   |
| <b>R15</b>   | 0         | 0         | 0         | 0         | 0         | <b>7</b>   |
| <b>R30</b>   | 0         | 0         | 0         | 0         | 0         | <b>7</b>   |
| <b>R31</b>   | 0         | 0         | 0         | 1         | 0         | <b>7</b>   |
| <b>R45</b>   | 1         | 1         | 0         | 0         | 0         | <b>7</b>   |
| <b>R82</b>   | 0         | 0         | 0         | 0         | 0         | <b>7</b>   |
| <b>R101</b>  | 0         | 1         | 0         | 1         | 0         | <b>7</b>   |
| <b>R32</b>   | 0         | 1         | 1         | 0         | 0         | <b>6</b>   |
| <b>R67</b>   | 1         | 0         | 0         | 0         | 0         | <b>6</b>   |
| <b>R80</b>   | 0         | 0         | 0         | 0         | 0         | <b>6</b>   |
| <b>R100</b>  | 0         | 0         | 0         | 0         | 0         | <b>6</b>   |
| <b>R109</b>  | 1         | 0         | 0         | 1         | 0         | <b>6</b>   |
| <b>R114</b>  | 0         | 1         | 0         | 0         | 0         | <b>6</b>   |
| <b>R1</b>    | 0         | 0         | 0         | 1         | 0         | <b>5</b>   |
| <b>R102</b>  | 0         | 1         | 0         | 0         | 0         | <b>5</b>   |
| <b>R118</b>  | 0         | 0         | 0         | 0         | 0         | <b>4</b>   |
| <b>Total</b> | <b>24</b> | <b>26</b> | <b>14</b> | <b>23</b> | <b>15</b> | <b>531</b> |
| <b>R85</b>   | 1         | 0         | 0         | 0         | 0         | <b>12</b>  |
| <b>R95</b>   | 0         | 1         | 0         | 0         | 0         | <b>12</b>  |
| <b>R107</b>  | 1         | 0         | 0         | 0         | 0         | <b>12</b>  |
| <b>R111</b>  | 0         | 0         | 0         | 0         | 1         | <b>12</b>  |
| <b>R113</b>  | 1         | 1         | 0         | 0         | 1         | <b>12</b>  |
| <b>R8</b>    | 1         | 1         | 1         | 0         | 0         | <b>11</b>  |
| <b>R27</b>   | 1         | 1         | 0         | 0         | 0         | <b>11</b>  |
| <b>R34</b>   | 1         | 0         | 1         | 1         | 1         | <b>11</b>  |
| <b>R58</b>   | 1         | 1         | 0         | 0         | 0         | <b>11</b>  |
| <b>R70</b>   | 1         | 0         | 1         | 1         | 1         | <b>11</b>  |
| <b>R75</b>   | 1         | 1         | 0         | 1         | 1         | <b>11</b>  |
| <b>R78</b>   | 1         | 1         | 1         | 1         | 0         | <b>11</b>  |
| <b>R89</b>   | 0         | 0         | 0         | 0         | 0         | <b>11</b>  |
| <b>R97</b>   | 0         | 1         | 1         | 1         | 0         | <b>11</b>  |
| <b>R103</b>  | 0         | 1         | 0         | 1         | 1         | <b>11</b>  |
| <b>R6</b>    | 0         | 1         | 0         | 1         | 0         | <b>10</b>  |
| <b>R22</b>   | 0         | 1         | 0         | 0         | 0         | <b>10</b>  |
| <b>R29</b>   | 1         | 0         | 1         | 0         | 0         | <b>10</b>  |
| <b>R44</b>   | 0         | 0         | 1         | 0         | 1         | <b>10</b>  |
| <b>R50</b>   | 1         | 1         | 1         | 1         | 0         | <b>10</b>  |
| <b>R55</b>   | 0         | 1         | 0         | 1         | 0         | <b>10</b>  |
| <b>R73</b>   | 0         | 0         | 1         | 1         | 0         | <b>10</b>  |
| <b>R98</b>   | 1         | 0         | 0         | 1         | 0         | <b>10</b>  |
| <b>R99</b>   | 0         | 1         | 0         | 0         | 0         | <b>10</b>  |
| <b>R116</b>  | 0         | 0         | 0         | 1         | 0         | <b>10</b>  |
| <b>R24</b>   | 0         | 0         | 0         | 1         | 0         | <b>9</b>   |
| <b>R26</b>   | 1         | 1         | 0         | 1         | 0         | <b>9</b>   |
| <b>R51</b>   | 0         | 0         | 0         | 0         | 0         | <b>9</b>   |

|              |    |    |    |    |    |            |
|--------------|----|----|----|----|----|------------|
| <b>R56</b>   | 0  | 0  | 0  | 1  | 1  | <b>9</b>   |
| <b>R71</b>   | 1  | 0  | 1  | 0  | 1  | <b>9</b>   |
| <b>R81</b>   | 0  | 0  | 0  | 1  | 1  | <b>9</b>   |
| <b>R84</b>   | 0  | 1  | 0  | 0  | 0  | <b>9</b>   |
| <b>R92</b>   | 1  | 1  | 0  | 1  | 0  | <b>9</b>   |
| <b>R96</b>   | 0  | 0  | 0  | 1  | 0  | <b>9</b>   |
| <b>R106</b>  | 1  | 0  | 0  | 0  | 1  | <b>9</b>   |
| <b>R115</b>  | 1  | 0  | 0  | 0  | 0  | <b>9</b>   |
| <b>R2</b>    | 0  | 0  | 1  | 0  | 1  | <b>8</b>   |
| <b>R37</b>   | 1  | 1  | 1  | 0  | 0  | <b>8</b>   |
| <b>R59</b>   | 0  | 0  | 0  | 1  | 1  | <b>8</b>   |
| <b>R87</b>   | 0  | 1  | 0  | 0  | 1  | <b>8</b>   |
| <b>R94</b>   | 1  | 0  | 0  | 0  | 0  | <b>8</b>   |
| <b>R104</b>  | 0  | 1  | 0  | 0  | 1  | <b>8</b>   |
| <b>R120</b>  | 1  | 1  | 0  | 0  | 0  | <b>8</b>   |
| <b>R4</b>    | 0  | 0  | 1  | 0  | 0  | <b>7</b>   |
| <b>R7</b>    | 0  | 0  | 0  | 0  | 0  | <b>7</b>   |
| <b>R15</b>   | 0  | 0  | 0  | 0  | 0  | <b>7</b>   |
| <b>R30</b>   | 0  | 0  | 0  | 0  | 0  | <b>7</b>   |
| <b>R31</b>   | 0  | 0  | 0  | 1  | 0  | <b>7</b>   |
| <b>R45</b>   | 1  | 1  | 0  | 0  | 0  | <b>7</b>   |
| <b>R82</b>   | 0  | 0  | 0  | 0  | 0  | <b>7</b>   |
| <b>R101</b>  | 0  | 1  | 0  | 1  | 0  | <b>7</b>   |
| <b>R32</b>   | 0  | 1  | 1  | 0  | 0  | <b>6</b>   |
| <b>R67</b>   | 1  | 0  | 0  | 0  | 0  | <b>6</b>   |
| <b>R80</b>   | 0  | 0  | 0  | 0  | 0  | <b>6</b>   |
| <b>R100</b>  | 0  | 0  | 0  | 0  | 0  | <b>6</b>   |
| <b>R109</b>  | 1  | 0  | 0  | 1  | 0  | <b>6</b>   |
| <b>R114</b>  | 0  | 1  | 0  | 0  | 0  | <b>6</b>   |
| <b>R1</b>    | 0  | 0  | 0  | 1  | 0  | <b>5</b>   |
| <b>R102</b>  | 0  | 1  | 0  | 0  | 0  | <b>5</b>   |
| <b>R118</b>  | 0  | 0  | 0  | 0  | 0  | <b>4</b>   |
| <b>Total</b> | 24 | 26 | 14 | 23 | 15 | <b>531</b> |



## Lampiran 18

**HASIL ANALISIS INDEKS KESUKARAN BUTIR (IKB) HASIL  
BELAJAR FISIKA**

| No.<br>Soal | Konsistensi Internal Butir |             |             | Indeks Kesukaran Butir |            |
|-------------|----------------------------|-------------|-------------|------------------------|------------|
|             | $r_{hitung}$               | $r_{tabel}$ | Kualifikasi | IKB                    | Keterangan |
| 1           | 0,284                      | 0,179       | Konsisten   | 0,408                  | Sedang     |
| 2           | 0,205                      | 0,179       | Konsisten   | 0,458                  | Sedang     |
| 3           | 0,319                      | 0,179       | Konsisten   | 0,583                  | Sedang     |
| 4           | 0,323                      | 0,179       | Konsisten   | 0,500                  | Sedang     |
| 5           | 0,327                      | 0,179       | Konsisten   | 0,492                  | Sedang     |
| 6           | 0,284                      | 0,179       | Konsisten   | 0,467                  | Sedang     |
| 7           | 0,296                      | 0,179       | Konsisten   | 0,583                  | Sedang     |
| 8           | 0,257                      | 0,179       | Konsisten   | 0,575                  | Sedang     |
| 9           | 0,414                      | 0,179       | Konsisten   | 0,525                  | Sedang     |
| 10          | 0,328                      | 0,179       | Konsisten   | 0,500                  | Sedang     |
| 11          | 0,315                      | 0,179       | Konsisten   | 0,517                  | Sedang     |
| 12          | 0,294                      | 0,179       | Konsisten   | 0,483                  | Sedang     |
| 13          | 0,288                      | 0,179       | Konsisten   | 0,433                  | Sedang     |
| 14          | 0,391                      | 0,179       | Konsisten   | 0,533                  | Sedang     |
| 15          | 0,233                      | 0,179       | Konsisten   | 0,375                  | Sukar      |
| 16          | 0,439                      | 0,179       | Konsisten   | 0,492                  | Sedang     |
| 17          | 0,161                      | 0,179       | Konsisten   | 0,400                  | Sukar      |
| 18          | 0,232                      | 0,179       | Konsisten   | 0,433                  | Sedang     |
| 19          | 0,481                      | 0,179       | Konsisten   | 0,542                  | Sedang     |
| 20          | -0,101                     | 0,179       | Konsisten   | 0,317                  | Sukar      |
| 21          | 0,310                      | 0,179       | Konsisten   | 0,517                  | Sedang     |
| 22          | 0,320                      | 0,179       | Konsisten   | 0,558                  | Sedang     |
| 23          | 0,248                      | 0,179       | Konsisten   | 0,325                  | Sukar      |
| 24          | 0,028                      | 0,179       | Konsisten   | 0,383                  | Sukar      |
| 25          | 0,545                      | 0,179       | Konsisten   | 0,475                  | Sedang     |

**Kriteria Indeks Kesukaran Butir (IKB)**

| <b>Batasan Koefisien IKB</b> | <b>Kriteria</b>   |
|------------------------------|-------------------|
| 0,00 – 0,20                  | Soal sangat sukar |
| 0,20 – 0,40                  | Soal sukar        |
| 0,40 – 0,60                  | Soal Sedang       |
| 0,60 – 0,80                  | Soal mudah        |
| 0,80 – 1,00                  | Soal sangat mudah |



## Lampiran 19

**HASIL ANALISIS INDEKS DAYA BEDA BUTIR (IDB) HASIL BELAJAR  
FISIKA**

| No. Soal | Indeks Daya Beda |               | Reliabilitas | Kualifikasi     |
|----------|------------------|---------------|--------------|-----------------|
|          | IDB              | Kualifikasi   |              |                 |
| 1        | 0,250            | Rendah        | 0,648        | <b>Reliable</b> |
| 2        | 0,283            | Rendah        |              |                 |
| 3        | 0,300            | Rendah        |              |                 |
| 4        | 0,200            | Rendah        |              |                 |
| 5        | 0,217            | Rendah        |              |                 |
| 6        | 0,300            | Rendah        |              |                 |
| 7        | 0,200            | Rendah        |              |                 |
| 8        | 0,200            | Rendah        |              |                 |
| 9        | 0,417            | Sedang        |              |                 |
| 10       | 0,367            | Rendah        |              |                 |
| 11       | 0,317            | Rendah        |              |                 |
| 12       | 0,200            | Rendah        |              |                 |
| 13       | 0,200            | Rendah        |              |                 |
| 14       | 0,300            | Rendah        |              |                 |
| 15       | 0,183            | Sangat Rendah |              |                 |
| 16       | 0,283            | Rendah        |              |                 |
| 17       | 0,117            | Sangat Rendah |              |                 |
| 18       | 0,233            | Rendah        |              |                 |
| 19       | 0,450            | Sedang        |              |                 |
| 20       | -0,067           | Sangat Rendah |              |                 |
| 21       | 0,233            | Rendah        |              |                 |
| 22       | 0,250            | Rendah        |              |                 |
| 23       | 0,167            | Sangat Rendah |              |                 |
| 24       | 0,000            | Sangat Rendah |              |                 |
| 25       | 0,450            | Sedang        |              |                 |

**Kriteria Indeks Daya Bada Butir (IDB)**

| <b>Batasan Koefisien IKB</b> | <b>Kriteria</b> |
|------------------------------|-----------------|
| $0,00 < IDB < 0,20$          | Sangat Rendah   |
| $0,20 < IDB < 0,40$          | Rendah          |
| $0,40 < IDB < 0,60$          | Sedang          |
| $0,60 < IDB < 0,80$          | Tinggi          |
| $0,80 < IDB < 1,00$          | Sangat Tinggi   |



## Lampiran 20

**REKAPITULASI HASIL ANALISIS UJI COBA  
TES HASIL BELAJAR**

| No. | Konsistensi Internal Butir |             | Indeks Kesukaran Butir |             | Indeks Daya Beda Butir |               | Keputusan |
|-----|----------------------------|-------------|------------------------|-------------|------------------------|---------------|-----------|
|     | Rxy                        | Kualifikasi | IKB                    | Kualifikasi | IDB                    | Kualifikasi   |           |
| 1   | 0,284                      | Valid       | 0,408                  | Sedang      | 0,250                  | Rendah        | Diterima  |
| 2   | 0,205                      | Valid       | 0,458                  | Sedang      | 0,283                  | Rendah        | Diterima  |
| 3   | 0,319                      | Valid       | 0,583                  | Sedang      | 0,300                  | Rendah        | Diterima  |
| 4   | 0,323                      | Valid       | 0,500                  | Sedang      | 0,200                  | Rendah        | Diterima  |
| 5   | 0,327                      | Valid       | 0,492                  | Sedang      | 0,217                  | Rendah        | Diterima  |
| 6   | 0,284                      | Valid       | 0,467                  | Sedang      | 0,300                  | Rendah        | Diterima  |
| 7   | 0,296                      | Valid       | 0,583                  | Sedang      | 0,200                  | Rendah        | Diterima  |
| 8   | 0,257                      | Valid       | 0,575                  | Sedang      | 0,200                  | Rendah        | Diterima  |
| 9   | 0,414                      | Valid       | 0,525                  | Sedang      | 0,417                  | Sedang        | Diterima  |
| 10  | 0,328                      | Valid       | 0,500                  | Sedang      | 0,367                  | Rendah        | Diterima  |
| 11  | 0,315                      | Valid       | 0,517                  | Sedang      | 0,317                  | Rendah        | Diterima  |
| 12  | 0,294                      | Valid       | 0,483                  | Sedang      | 0,200                  | Rendah        | Diterima  |
| 13  | 0,288                      | Valid       | 0,433                  | Sedang      | 0,200                  | Rendah        | Diterima  |
| 14  | 0,391                      | Valid       | 0,533                  | Sedang      | 0,300                  | Rendah        | Diterima  |
| 15  | 0,233                      | Valid       | 0,375                  | Sukar       | 0,183                  | Sangat Rendah | Ditolak   |
| 16  | 0,439                      | Valid       | 0,492                  | Sedang      | 0,283                  | Rendah        | Diterima  |
| 17  | 0,161                      | Tidak Valid | 0,400                  | Sukar       | 0,117                  | Sangat Rendah | Ditolak   |
| 18  | 0,232                      | Valid       | 0,433                  | Sedang      | 0,233                  | Rendah        | Diterima  |
| 19  | 0,481                      | Valid       | 0,542                  | Sedang      | 0,450                  | Sedang        | Diterima  |
| 20  | -0,101                     | Tidak Valid | 0,317                  | Sukar       | -0,067                 | Sangat Rendah | Ditolak   |
| 21  | 0,310                      | Valid       | 0,517                  | Sedang      | 0,233                  | Rendah        | Diterima  |
| 22  | 0,320                      | Valid       | 0,558                  | Sedang      | 0,250                  | Rendah        | Ditolak   |
| 23  | 0,248                      | Valid       | 0,325                  | Sukar       | 0,167                  | Sangat Rendah | Ditolak   |
| 24  | 0,028                      | Tidak Valid | 0,383                  | Sukar       | 0,000                  | Sangat Rendah | Ditolak   |
| 25  | 0,545                      | Valid       | 0,475                  | Sedang      | 0,450                  | Sedang        | Ditolak   |

### Analisis Reliabilitas Tes Prestasi Belajar Fisika

Analisis reliabilitas Tes Prestasi Belajar menggunakan *IBM SPSS Statistic Version 26* dengan hasil yang diperoleh sebagai berikut.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| 0,648                  | 25         |

Nilai dari *Cronbach's Alpha* sebesar 0,648 menunjukkan bahwa tes prestasi belajar fisika yang diuji memiliki reliabilitas yang tinggi (*reliable*) karena lebih dari 0,40. Hasil ini menunjukkan bahwa tes prestasi belajar fisika diri sudah lolos uji reliabilitas dan dinyatakan layak digunakan untuk pengambilan data penelitian.





## Lampiran 21

**KISI-KISI KUESIONER KONDISI EKONOMI KELUARGA YANG  
DIGUNAKAN**

| No. | Dimensi                                      | Indikator  | No Item     |         | Jumlah |
|-----|--|--|-------------|---------|--------|
|     |  |  | Positif     | Negatif |        |
| 1.  | Tingkat Pendidikan                           | 1. Pentingnya pendidikan terakhir orang tua                              | 1,2         | -       | 2      |
|     |  | 2. Pentingnya pendidikan pengetahuan, pemahaman, dan moral dari orangtua | -           | 3,4     | 2      |
| 2.  | Pekerjaan Dan Penghasilan                    | 3. Pentingnya jenis pekerjaan orang tua                                  | 6           | 5       | 2      |
|     |  | 4. Tingkat penghasilan ayah, ibu dan keluarga yang lain                  | 7,9         | 8       | 3      |
|     |  | 5. Perlunya pekerjaan sampingan atau penghasilan tambahan                | 10,11       | 12      | 3      |
| 3.  | Pengeluaran dan Pemenuhan Kebutuhan Keluarga | 6. Kesenjangan antara penghasilan dan pengeluaran keluarga               | 13,14,      | 15      | 3      |
|     |  | 7. Terpenuhinya kebutuhan keluarga dari hasil pendapatan                 | 16,17,18,19 | 20,21   | 6      |
|     |  | 8. Terpenuhinya  | 22,23,24,25 | -       | 4      |

| No.          | Dimensi | Indikator              | No Item |         | Jumlah    |
|--------------|---------|------------------------|---------|---------|-----------|
|              |         |                        | Positif | Negatif |           |
|              |         | fasilitas belajar anak |         |         |           |
| <b>Total</b> |         |                        |         |         | <b>25</b> |

Berikut merupakan pedoman penskoran untuk kuesioner kondisi ekonomi keluarga yang akan diujicobakan dalam penelitian ini.

#### **RUBRIK PENSKORAN KUESIONER KONDISI KONOMI KELUARGA**

| Pilihan Jawaban    | Skor               |                    |
|--------------------|--------------------|--------------------|
|                    | Pernyataan Positif | Pernyataan Negatif |
| Selalu (SL)        | 5                  | 1                  |
| Sering (S)         | 4                  | 2                  |
| Kadang-kadang (KK) | 3                  | 3                  |
| Jarang (J)         | 2                  | 4                  |
| Tidak Pernah (TP)  | 1                  | 5                  |

## Lampiran 22

### KUESIONER KONDISI EKONOMI YANG DIGUNAKAN

#### A. Petunjuk Pengisian:

1. Kuesioner ini terdiri dari 25 pertanyaan tentang kondisi ekonomi keluarga.
2. Bacalah pernyataan dengan cermat, kemudian jawablah sesuai dengan keadaan anda yang sebenarnya dengan cara memberi tanda ceklis (✓) pada salah satu kolom jawaban.
3. Kategori yang digunakan untuk menjawab adalah;
  - SL = Selalu
  - S = Sering
  - K = Kadang-kadang
  - J = Jarang
  - TP = Tidak Pernah
4. Tidak ada jawaban yang benar atau salah, tidak ada pengaruh terhadap penilaian yang dilakukan di sekolah, dan akan di rahasiakan.
5. Sebelum anda menyerahkan lembaran ini, periksalah kembali dengan seksama agar tidak ada pernyataan yang terlewat.

#### B. Daftar Pertanyaan

| NO. | PERTANYAAN   | SS | S | R | TS | STS |
|-----|--|----|---|---|----|-----|
| 1.  | Orang tua saya memiliki jenjang Pendidikan yang tinggi (SMA, Perguruan Tinggi) |    |   |   |    |     |
| 2.  | Orang tua saya mengalami putus sekolah   |    |   |   |    |     |
| 3.  | Orang tua saya memberikan Pendidikan yang baik sejak kecil                     |    |   |   |    |     |
| 4.  | Orang tua saya menanamkan pentingnya pendidikan sejak usia dini                |    |   |   |    |     |
| 5.  | Ayah saya memiliki jabatan yang tinggi guna memenuhi kebutuhan                 |    |   |   |    |     |

| NO. | PERTANYAAN   | SS | S | R | TS | STS |
|-----|--|----|---|---|----|-----|
|     | pendidikan saya (kepala,Golongan IV,Perwira)   |    |   |   |    |     |
| 6.  | Ibu saya memiliki jabatan yang tinggi guna memenuhi kebutuhan pendidikan saya (kepala,Golongan IV,Perwira)             |    |   |   |    |     |
| 7.  | Orang tua saya memiliki penghasilan diatas UMR (Upah Minimum Regional) dari pekerjaannya                               |    |   |   |    |     |
| 8.  | Orang tua saya memiliki penghasilan UMR sehingga mampu memberikan fasilitas belajar.                                   |    |   |   |    |     |
| 9.  | Kelebihan penghasilan orang tua saya biasanya diwujudkan dalam bentuk hadiah ketika saya mendapatkan prestasi.         |    |   |   |    |     |
| 10. | Ibu saya bekerja sehingga dapat membantu perekonomian keluarga   |    |   |   |    |     |
| 11. | Orang tua saya memiliki pekerjaan sampingan agar cukup memenuhi kebutuhan keluarga                                     |    |   |   |    |     |
| 12. | Saya turut membantu pekerjaan orang tua untuk menambah penghasilan keluarga  |    |   |   |    |     |
| 13. | Penghasilan orang tua saya mencukupi kebutuhan keluarga  |    |   |   |    |     |
| 14. | Orang tua saya mempunyai tanggungan cicilan kendaraan bermotor (Sepeda motor atau Mobil)                               |    |   |   |    |     |
| 15. | Gaji orangtua saya mencukupi untuk membiayai sekolah   |    |   |   |    |     |
| 16. | Penghasilan orang tua saya bisa mencukupi kebutuhan tersier (kebutuhan yang mencakup barang-barang mewah atau branded) |    |   |   |    |     |
| 17. | Saya tinggal bersama keluarga di rumah sendiri   |    |   |   |    |     |

| NO. | PERTANYAAN   | SS | S | R | TS | STS |
|-----|--|----|---|---|----|-----|
| 18. | Saya diberikan fasilitas belajar yang cukup oleh orang tua                                       |    |   |   |    |     |
| 19. | Orang tua saya memiliki pekerjaan tetap sehingga mampu memenuhi kebutuhan fasilitas belajar saya |    |   |   |    |     |
| 20. | Orangtua saya tidak memiliki cicilan   |    |   |   |    |     |
| 21. | Orang tua saya mampu menabung tiap bulan dari penghasilan yang diterima                          |    |   |   |    |     |
| 22. | Orang tua saya membelikan komputer atau laptop guna menunjang proses belajar saya.               |    |   |   |    |     |
| 23. | Orang tua saya mampu membelikan buku-buku mata pelajaran sekolah                                 |    |   |   |    |     |
| 24. | Orang tua saya memberikan smartphone guna menunjang kegiatan belajar                             |    |   |   |    |     |
| 25. | Saya diberi fasilitas les tambahan guna membantu pemahaman saya terhadap pelajaran di sekolah    |    |   |   |    |     |



## Lampiran 23

**DATA KONDISI EKONOMI KELUARGA KELAS XI MIPA SMA  
NEGERI DI KOTA SINGARAJA**

| Responden | Nomor Pertanyaan |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R1        | 5                | 5 | 2 | 4 | 5 | 5 | 2 | 1 | 5 | 5  | 2  | 3  | 1  | 2  | 5  |
| R2        | 5                | 5 | 5 | 5 | 4 | 2 | 1 | 1 | 2 | 2  | 2  | 3  | 2  | 1  | 5  |
| R3        | 5                | 5 | 2 | 2 | 4 | 3 | 2 | 2 | 4 | 4  | 4  | 2  | 1  | 4  | 5  |
| R4        | 4                | 5 | 3 | 4 | 4 | 2 | 2 | 1 | 4 | 2  | 5  | 3  | 3  | 4  | 4  |
| R5        | 5                | 5 | 2 | 3 | 4 | 2 | 3 | 2 | 5 | 2  | 3  | 3  | 1  | 3  | 4  |
| R6        | 5                | 5 | 3 | 5 | 4 | 2 | 2 | 1 | 3 | 2  | 3  | 3  | 3  | 4  | 5  |
| R7        | 5                | 5 | 2 | 4 | 4 | 4 | 2 | 1 | 3 | 3  | 2  | 3  | 3  | 2  | 5  |
| R8        | 5                | 5 | 4 | 3 | 4 | 2 | 3 | 1 | 1 | 1  | 2  | 4  | 2  | 5  | 5  |
| R9        | 4                | 5 | 2 | 2 | 4 | 3 | 2 | 2 | 2 | 4  | 3  | 3  | 3  | 3  | 4  |
| R10       | 5                | 5 | 2 | 4 | 5 | 4 | 1 | 1 | 5 | 1  | 5  | 1  | 1  | 5  | 5  |
| R11       | 5                | 5 | 2 | 3 | 5 | 4 | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 3  | 4  |
| R12       | 5                | 5 | 2 | 1 | 4 | 5 | 2 | 1 | 2 | 2  | 3  | 2  | 2  | 3  | 5  |
| R13       | 5                | 5 | 4 | 3 | 4 | 3 | 3 | 2 | 4 | 3  | 5  | 3  | 2  | 3  | 4  |
| R14       | 4                | 5 | 2 | 3 | 4 | 3 | 3 | 2 | 4 | 4  | 3  | 3  | 3  | 3  | 4  |
| R15       | 4                | 4 | 3 | 2 | 4 | 2 | 4 | 2 | 3 | 2  | 3  | 2  | 4  | 3  | 3  |
| R16       | 5                | 5 | 1 | 4 | 4 | 5 | 1 | 1 | 1 | 4  | 2  | 3  | 2  | 4  | 5  |
| R17       | 5                | 5 | 5 | 5 | 3 | 3 | 3 | 5 | 5 | 5  | 5  | 2  | 5  | 1  | 3  |
| R18       | 4                | 4 | 3 | 5 | 5 | 3 | 3 | 3 | 5 | 1  | 3  | 3  | 2  | 3  | 3  |
| R19       | 4                | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 1  | 4  | 3  | 4  | 2  | 3  |
| R20       | 4                | 4 | 2 | 4 | 3 | 4 | 4 | 2 | 4 | 5  | 3  | 5  | 2  | 4  | 4  |
| R21       | 4                | 4 | 3 | 3 | 5 | 3 | 2 | 1 | 5 | 4  | 2  | 4  | 2  | 2  | 5  |
| R22       | 5                | 4 | 3 | 2 | 4 | 4 | 3 | 2 | 2 | 2  | 2  | 3  | 4  | 3  | 4  |
| R23       | 5                | 5 | 4 | 4 | 2 | 4 | 2 | 2 | 4 | 4  | 3  | 4  | 2  | 5  | 5  |
| R24       | 5                | 5 | 1 | 2 | 4 | 2 | 4 | 1 | 5 | 2  | 2  | 2  | 3  | 2  | 5  |
| R25       | 5                | 5 | 3 | 4 | 4 | 1 | 3 | 2 | 5 | 5  | 3  | 3  | 3  | 4  | 4  |
| R26       | 4                | 5 | 3 | 4 | 4 | 1 | 3 | 1 | 5 | 5  | 5  | 3  | 3  | 4  | 4  |
| R27       | 5                | 5 | 5 | 5 | 4 | 5 | 5 | 1 | 1 | 3  | 3  | 2  | 1  | 3  | 5  |
| R28       | 5                | 5 | 5 | 5 | 4 | 3 | 2 | 5 | 2 | 3  | 1  | 2  | 1  | 3  | 5  |
| R29       | 5                | 4 | 4 | 5 | 5 | 4 | 2 | 1 | 4 | 2  | 3  | 2  | 1  | 2  | 5  |
| R30       | 5                | 5 | 5 | 3 | 5 | 3 | 3 | 1 | 5 | 5  | 5  | 1  | 1  | 5  | 5  |
| R31       | 5                | 5 | 5 | 5 | 4 | 3 | 5 | 5 | 5 | 3  | 2  | 3  | 2  | 4  | 4  |
| R32       | 4                | 5 | 4 | 5 | 4 | 2 | 3 | 1 | 4 | 4  | 3  | 3  | 2  | 4  | 4  |
| R33       | 5                | 5 | 1 | 1 | 4 | 1 | 4 | 3 | 4 | 5  | 4  | 3  | 2  | 3  | 4  |
| R34       | 5                | 4 | 2 | 4 | 4 | 1 | 3 | 1 | 5 | 5  | 5  | 5  | 3  | 3  | 3  |
| R35       | 5                | 5 | 1 | 1 | 4 | 2 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 4  | 5  |
| R36       | 5                | 5 | 2 | 3 | 4 | 2 | 3 | 1 | 5 | 3  | 3  | 2  | 3  | 2  | 4  |
| R37       | 5                | 5 | 3 | 4 | 5 | 5 | 1 | 1 | 5 | 5  | 4  | 2  | 1  | 2  | 4  |
| R38       | 4                | 5 | 3 | 4 | 3 | 1 | 3 | 2 | 3 | 4  | 5  | 2  | 2  | 4  | 5  |
| R39       | 5                | 5 | 2 | 3 | 4 | 5 | 1 | 1 | 5 | 5  | 3  | 1  | 2  | 4  | 5  |



| Responden | Nomor Pertanyaan |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R40       | 5                | 5 | 2 | 4 | 5 | 5 | 1 | 1 | 5 | 5  | 3  | 1  | 1  | 5  | 5  |
| R41       | 4                | 5 | 4 | 4 | 4 | 4 | 2 | 1 | 4 | 4  | 4  | 2  | 4  | 2  | 5  |
| R42       | 5                | 5 | 3 | 3 | 5 | 2 | 2 | 1 | 5 | 3  | 3  | 3  | 2  | 5  | 5  |
| R43       | 4                | 5 | 1 | 4 | 4 | 4 | 2 | 4 | 2 | 2  | 4  | 4  | 2  | 2  | 4  |
| R44       | 4                | 5 | 3 | 3 | 5 | 4 | 1 | 1 | 5 | 1  | 1  | 2  | 1  | 1  | 5  |
| R45       | 5                | 5 | 1 | 3 | 4 | 3 | 3 | 1 | 5 | 5  | 5  | 2  | 3  | 3  | 5  |
| R46       | 4                | 5 | 4 | 4 | 3 | 1 | 4 | 1 | 5 | 2  | 3  | 5  | 4  | 1  | 3  |
| R47       | 4                | 5 | 2 | 2 | 4 | 2 | 3 | 1 | 5 | 4  | 4  | 2  | 3  | 3  | 5  |
| R48       | 4                | 5 | 2 | 3 | 4 | 2 | 2 | 1 | 5 | 5  | 4  | 2  | 1  | 4  | 5  |
| R49       | 5                | 4 | 1 | 2 | 4 | 4 | 3 | 1 | 4 | 3  | 2  | 2  | 2  | 2  | 4  |
| R50       | 5                | 5 | 2 | 4 | 5 | 4 | 1 | 1 | 2 | 5  | 5  | 2  | 2  | 3  | 5  |
| R51       | 5                | 4 | 2 | 2 | 4 | 4 | 2 | 1 | 1 | 1  | 1  | 3  | 2  | 4  | 5  |
| R52       | 5                | 4 | 3 | 4 | 1 | 2 | 3 | 3 | 2 | 5  | 1  | 1  | 4  | 3  | 1  |
| R53       | 3                | 4 | 2 | 4 | 5 | 5 | 1 | 1 | 2 | 4  | 3  | 2  | 2  | 4  | 4  |
| R54       | 4                | 5 | 3 | 2 | 5 | 4 | 2 | 2 | 4 | 3  | 2  | 3  | 3  | 2  | 4  |
| R55       | 5                | 5 | 3 | 3 | 2 | 3 | 3 | 1 | 5 | 2  | 2  | 3  | 4  | 4  | 4  |
| R56       | 5                | 5 | 1 | 1 | 4 | 2 | 5 | 2 | 5 | 5  | 5  | 1  | 4  | 4  | 4  |
| R57       | 5                | 5 | 5 | 5 | 4 | 3 | 2 | 2 | 5 | 3  | 2  | 3  | 1  | 3  | 4  |
| R58       | 5                | 5 | 3 | 4 | 4 | 4 | 3 | 1 | 5 | 3  | 1  | 4  | 3  | 4  | 5  |
| R59       | 3                | 5 | 2 | 4 | 5 | 5 | 1 | 1 | 1 | 5  | 3  | 3  | 1  | 2  | 4  |
| R60       | 5                | 5 | 2 | 4 | 5 | 4 | 1 | 5 | 5 | 2  | 3  | 3  | 3  | 4  | 5  |
| R61       | 4                | 5 | 2 | 4 | 3 | 1 | 2 | 1 | 4 | 4  | 4  | 3  | 2  | 5  | 4  |
| R62       | 5                | 5 | 4 | 4 | 5 | 2 | 2 | 1 | 5 | 5  | 5  | 1  | 1  | 5  | 5  |
| R63       | 4                | 5 | 3 | 4 | 4 | 3 | 1 | 2 | 3 | 2  | 2  | 4  | 1  | 5  | 5  |
| R64       | 5                | 5 | 2 | 2 | 4 | 4 | 2 | 2 | 4 | 3  | 2  | 2  | 2  | 3  | 4  |
| R65       | 5                | 5 | 1 | 5 | 5 | 1 | 1 | 1 | 5 | 5  | 1  | 5  | 1  | 5  | 5  |
| R66       | 2                | 5 | 2 | 2 | 2 | 1 | 3 | 2 | 5 | 4  | 2  | 5  | 2  | 3  | 3  |
| R67       | 4                | 3 | 2 | 2 | 4 | 2 | 3 | 1 | 5 | 3  | 4  | 2  | 2  | 4  | 5  |
| R68       | 4                | 4 | 2 | 3 | 3 | 2 | 3 | 1 | 5 | 5  | 4  | 3  | 3  | 2  | 4  |
| R69       | 5                | 5 | 2 | 2 | 1 | 3 | 2 | 2 | 3 | 1  | 1  | 4  | 1  | 3  | 4  |
| R70       | 5                | 5 | 3 | 3 | 3 | 4 | 2 | 1 | 3 | 1  | 2  | 2  | 1  | 4  | 4  |
| R71       | 5                | 4 | 2 | 2 | 5 | 4 | 1 | 1 | 4 | 4  | 1  | 1  | 2  | 5  | 5  |
| R72       | 5                | 5 | 1 | 2 | 4 | 1 | 3 | 1 | 5 | 5  | 5  | 4  | 3  | 1  | 4  |
| R73       | 4                | 4 | 4 | 4 | 4 | 2 | 3 | 2 | 5 | 2  | 3  | 3  | 2  | 4  | 4  |
| R74       | 4                | 5 | 3 | 4 | 4 | 2 | 2 | 2 | 2 | 2  | 2  | 2  | 2  | 2  | 4  |
| R75       | 5                | 5 | 4 | 4 | 3 | 4 | 2 | 1 | 3 | 4  | 2  | 4  | 3  | 4  | 4  |
| R76       | 2                | 5 | 2 | 4 | 4 | 1 | 3 | 2 | 5 | 3  | 3  | 2  | 2  | 5  | 4  |
| R77       | 4                | 5 | 2 | 3 | 4 | 4 | 2 | 2 | 4 | 3  | 4  | 3  | 2  | 2  | 4  |
| R78       | 5                | 5 | 1 | 2 | 5 | 2 | 2 | 1 | 5 | 4  | 2  | 1  | 1  | 5  | 5  |
| R79       | 5                | 5 | 2 | 4 | 3 | 4 | 2 | 2 | 4 | 2  | 3  | 2  | 3  | 3  | 4  |
| R80       | 5                | 5 | 3 | 5 | 4 | 2 | 2 | 1 | 2 | 4  | 4  | 3  | 2  | 2  | 4  |
| R81       | 4                | 5 | 2 | 4 | 4 | 2 | 2 | 2 | 3 | 2  | 2  | 2  | 2  | 4  | 4  |
| R82       | 5                | 5 | 1 | 2 | 4 | 4 | 2 | 1 | 1 | 4  | 4  | 2  | 1  | 4  | 5  |
| R83       | 5                | 5 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2  | 2  | 2  | 1  | 4  | 5  |
| R84       | 5                | 5 | 2 | 3 | 4 | 3 | 2 | 1 | 5 | 3  | 2  | 3  | 2  | 4  | 4  |
| R85       | 5                | 5 | 3 | 3 | 5 | 5 | 1 | 1 | 5 | 2  | 1  | 3  | 1  | 5  | 5  |

| Responden | Nomor Pertanyaan |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R86       | 5                | 5 | 3 | 2 | 4 | 2 | 4 | 2 | 5 | 5  | 5  | 2  | 4  | 1  | 5  |
| R87       | 5                | 5 | 2 | 1 | 4 | 3 | 4 | 1 | 5 | 5  | 5  | 3  | 4  | 3  | 4  |
| R88       | 5                | 4 | 3 | 4 | 4 | 2 | 3 | 1 | 5 | 4  | 3  | 3  | 3  | 3  | 3  |
| R89       | 5                | 5 | 4 | 4 | 5 | 4 | 1 | 1 | 5 | 1  | 1  | 1  | 1  | 2  | 5  |
| R90       | 5                | 5 | 3 | 4 | 4 | 3 | 2 | 1 | 4 | 4  | 2  | 2  | 2  | 4  | 5  |
| R91       | 5                | 5 | 2 | 2 | 5 | 3 | 2 | 1 | 2 | 2  | 4  | 3  | 1  | 2  | 5  |
| R92       | 5                | 4 | 3 | 4 | 4 | 3 | 3 | 1 | 5 | 2  | 3  | 2  | 2  | 3  | 2  |
| R93       | 5                | 5 | 1 | 1 | 5 | 4 | 2 | 1 | 2 | 2  | 4  | 3  | 2  | 4  | 5  |
| R94       | 5                | 5 | 2 | 3 | 4 | 5 | 2 | 3 | 1 | 1  | 2  | 3  | 2  | 2  | 4  |
| R95       | 5                | 5 | 3 | 2 | 4 | 1 | 1 | 1 | 4 | 5  | 4  | 3  | 1  | 5  | 5  |
| R96       | 5                | 5 | 1 | 3 | 5 | 4 | 1 | 1 | 4 | 4  | 4  | 3  | 1  | 5  | 5  |
| R97       | 5                | 5 | 1 | 1 | 5 | 5 | 1 | 1 | 5 | 5  | 5  | 3  | 1  | 2  | 5  |
| R98       | 5                | 5 | 1 | 2 | 4 | 2 | 2 | 1 | 5 | 5  | 3  | 3  | 2  | 2  | 5  |
| R99       | 5                | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 1 | 3  | 3  | 3  | 3  | 4  | 3  |
| R100      | 4                | 5 | 3 | 3 | 4 | 4 | 2 | 2 | 4 | 5  | 3  | 2  | 2  | 4  | 4  |
| R101      | 5                | 4 | 2 | 2 | 4 | 3 | 2 | 3 | 4 | 2  | 3  | 4  | 3  | 3  | 3  |
| R102      | 5                | 5 | 3 | 3 | 5 | 4 | 2 | 1 | 4 | 4  | 2  | 1  | 1  | 5  | 5  |
| R103      | 5                | 5 | 3 | 4 | 5 | 4 | 2 | 1 | 2 | 5  | 2  | 1  | 1  | 5  | 5  |
| R104      | 5                | 5 | 3 | 4 | 5 | 5 | 4 | 1 | 5 | 1  | 2  | 2  | 2  | 4  | 5  |
| R105      | 5                | 5 | 3 | 4 | 5 | 5 | 2 | 1 | 5 | 1  | 2  | 2  | 2  | 4  | 5  |
| R106      | 5                | 5 | 2 | 4 | 5 | 3 | 3 | 1 | 1 | 3  | 3  | 4  | 1  | 5  | 5  |
| R107      | 5                | 4 | 2 | 3 | 5 | 4 | 2 | 2 | 4 | 4  | 4  | 3  | 2  | 3  | 4  |
| R108      | 5                | 5 | 1 | 4 | 4 | 4 | 2 | 2 | 5 | 5  | 2  | 3  | 1  | 4  | 5  |
| R109      | 5                | 5 | 4 | 4 | 4 | 2 | 2 | 1 | 5 | 4  | 2  | 4  | 1  | 1  | 5  |
| R110      | 5                | 5 | 3 | 3 | 5 | 5 | 1 | 5 | 1 | 1  | 1  | 3  | 1  | 5  | 5  |
| R111      | 5                | 4 | 2 | 2 | 3 | 1 | 3 | 3 | 5 | 1  | 4  | 2  | 3  | 5  | 3  |
| R112      | 5                | 5 | 3 | 4 | 5 | 5 | 4 | 1 | 1 | 1  | 1  | 3  | 1  | 4  | 5  |
| R113      | 5                | 5 | 2 | 1 | 5 | 1 | 5 | 1 | 5 | 5  | 1  | 4  | 1  | 1  | 2  |
| R114      | 4                | 5 | 2 | 1 | 3 | 1 | 5 | 2 | 2 | 5  | 1  | 4  | 1  | 1  | 3  |
| R115      | 5                | 5 | 1 | 1 | 2 | 2 | 4 | 2 | 4 | 3  | 1  | 2  | 5  | 1  | 4  |
| R116      | 5                | 5 | 3 | 2 | 4 | 4 | 5 | 3 | 3 | 3  | 2  | 1  | 5  | 1  | 5  |
| R117      | 5                | 5 | 2 | 3 | 4 | 3 | 5 | 2 | 5 | 5  | 1  | 2  | 5  | 4  | 4  |
| R118      | 4                | 5 | 1 | 3 | 1 | 4 | 3 | 1 | 4 | 4  | 3  | 4  | 5  | 2  | 1  |
| R119      | 4                | 4 | 3 | 1 | 1 | 4 | 5 | 2 | 3 | 4  | 5  | 1  | 5  | 3  | 2  |
| R120      | 5                | 5 | 3 | 1 | 3 | 1 | 4 | 2 | 3 | 5  | 3  | 2  | 4  | 2  | 1  |
| R121      | 5                | 5 | 1 | 2 | 5 | 3 | 4 | 1 | 4 | 4  | 3  | 1  | 2  | 1  | 3  |
| R122      | 5                | 3 | 1 | 5 | 1 | 1 | 3 | 1 | 3 | 4  | 2  | 1  | 2  | 1  | 4  |
| R123      | 4                | 4 | 1 | 2 | 4 | 1 | 4 | 2 | 5 | 3  | 1  | 1  | 1  | 2  | 2  |
| R124      | 4                | 4 | 1 | 3 | 4 | 3 | 5 | 3 | 3 | 4  | 3  | 1  | 3  | 3  | 1  |
| R125      | 4                | 4 | 3 | 3 | 3 | 1 | 5 | 1 | 4 | 5  | 3  | 3  | 2  | 3  | 2  |
| R126      | 5                | 4 | 2 | 3 | 1 | 2 | 4 | 2 | 4 | 3  | 4  | 2  | 5  | 4  | 3  |
| R127      | 5                | 5 | 4 | 5 | 4 | 3 | 3 | 5 | 5 | 4  | 4  | 3  | 3  | 1  | 1  |
| R128      | 4                | 3 | 3 | 4 | 5 | 5 | 4 | 5 | 3 | 4  | 4  | 5  | 1  | 3  | 3  |
| R129      | 5                | 4 | 3 | 4 | 5 | 3 | 4 | 5 | 5 | 5  | 5  | 4  | 3  | 1  | 1  |
| R130      | 4                | 4 | 5 | 5 | 4 | 3 | 5 | 4 | 5 | 3  | 4  | 4  | 3  | 3  | 3  |
| R131      | 5                | 4 | 3 | 3 | 3 | 5 | 4 | 3 | 5 | 4  | 3  | 5  | 1  | 3  | 3  |

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|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R132      | 5                | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3  | 5  | 4  | 2  | 3  | 3  |
| R133      | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 3  | 3  | 3  | 1  | 1  | 2  |
| R134      | 5                | 3 | 5 | 5 | 4 | 4 | 3 | 4 | 5 | 4  | 3  | 4  | 3  | 2  | 1  |
| R135      | 4                | 5 | 3 | 4 | 5 | 3 | 3 | 5 | 3 | 4  | 5  | 3  | 3  | 2  | 1  |
| R136      | 4                | 5 | 5 | 4 | 4 | 5 | 5 | 4 | 5 | 4  | 4  | 4  | 2  | 3  | 2  |
| R137      | 4                | 4 | 3 | 4 | 4 | 5 | 3 | 3 | 4 | 4  | 4  | 3  | 3  | 1  | 3  |
| R138      | 4                | 5 | 4 | 5 | 5 | 4 | 5 | 4 | 3 | 3  | 4  | 2  | 1  | 1  | 1  |
| R139      | 5                | 4 | 3 | 4 | 5 | 5 | 5 | 4 | 4 | 4  | 3  | 5  | 3  | 2  | 3  |
| R140      | 5                | 3 | 1 | 5 | 1 | 3 | 4 | 1 | 4 | 4  | 5  | 3  | 2  | 3  | 2  |
| R141      | 5                | 4 | 5 | 3 | 4 | 4 | 5 | 3 | 3 | 3  | 4  | 5  | 2  | 2  | 2  |
| R142      | 5                | 4 | 5 | 4 | 3 | 3 | 5 | 4 | 3 | 4  | 4  | 5  | 1  | 1  | 3  |
| R143      | 4                | 5 | 3 | 5 | 5 | 5 | 4 | 3 | 4 | 4  | 3  | 3  | 2  | 2  | 1  |
| R144      | 4                | 4 | 4 | 3 | 5 | 3 | 4 | 3 | 4 | 5  | 5  | 5  | 1  | 2  | 1  |
| R145      | 3                | 3 | 3 | 3 | 5 | 5 | 4 | 3 | 5 | 5  | 4  | 5  | 1  | 3  | 1  |
| R146      | 4                | 5 | 5 | 4 | 5 | 3 | 3 | 5 | 5 | 3  | 3  | 4  | 3  | 3  | 2  |
| R147      | 3                | 4 | 4 | 3 | 5 | 4 | 3 | 5 | 3 | 4  | 5  | 5  | 1  | 3  | 1  |
| R148      | 3                | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3  | 4  | 3  | 3  | 2  | 1  |
| R149      | 4                | 5 | 3 | 4 | 5 | 5 | 3 | 5 | 4 | 5  | 4  | 5  | 1  | 1  | 2  |
| R150      | 4                | 3 | 4 | 3 | 3 | 5 | 5 | 5 | 4 | 5  | 3  | 4  | 1  | 3  | 1  |
| R151      | 5                | 5 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 3  | 4  | 4  | 2  | 3  | 3  |
| R152      | 5                | 5 | 3 | 5 | 4 | 5 | 4 | 3 | 3 | 3  | 5  | 3  | 1  | 3  | 3  |
| R153      | 4                | 5 | 4 | 5 | 5 | 5 | 3 | 4 | 3 | 3  | 3  | 4  | 3  | 3  | 1  |
| R154      | 4                | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 4 | 3  | 5  | 4  | 2  | 2  | 2  |
| R155      | 4                | 5 | 3 | 3 | 4 | 4 | 5 | 3 | 4 | 3  | 4  | 4  | 2  | 3  | 3  |
| R156      | 4                | 4 | 4 | 3 | 5 | 4 | 4 | 3 | 4 | 5  | 5  | 4  | 2  | 3  | 2  |
| R157      | 5                | 3 | 3 | 5 | 5 | 4 | 4 | 3 | 5 | 5  | 3  | 4  | 3  | 1  | 1  |
| R158      | 5                | 5 | 3 | 3 | 3 | 5 | 5 | 4 | 3 | 5  | 5  | 3  | 3  | 3  | 3  |
| R159      | 4                | 5 | 4 | 4 | 3 | 4 | 3 | 5 | 3 | 3  | 3  | 3  | 1  | 3  | 1  |
| R160      | 5                | 3 | 3 | 3 | 5 | 4 | 3 | 3 | 5 | 5  | 5  | 4  | 3  | 3  | 1  |
| R161      | 5                | 4 | 3 | 3 | 5 | 3 | 4 | 3 | 5 | 3  | 5  | 4  | 3  | 3  | 3  |
| R162      | 4                | 4 | 3 | 5 | 3 | 5 | 5 | 4 | 3 | 3  | 3  | 3  | 1  | 2  | 2  |
| R163      | 3                | 3 | 4 | 4 | 5 | 3 | 3 | 4 | 4 | 4  | 5  | 5  | 1  | 1  | 1  |
| R164      | 3                | 4 | 5 | 5 | 3 | 3 | 4 | 4 | 5 | 3  | 4  | 4  | 2  | 1  | 2  |
| R165      | 4                | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 3  | 5  | 5  | 1  | 2  | 2  |
| R166      | 4                | 4 | 5 | 4 | 5 | 4 | 3 | 5 | 5 | 3  | 5  | 5  | 3  | 1  | 2  |
| R167      | 5                | 3 | 3 | 4 | 5 | 4 | 4 | 3 | 4 | 4  | 4  | 3  | 2  | 1  | 2  |
| R168      | 5                | 4 | 4 | 3 | 5 | 5 | 3 | 3 | 4 | 4  | 4  | 4  | 3  | 1  | 1  |
| R169      | 5                | 5 | 4 | 3 | 3 | 5 | 5 | 4 | 3 | 4  | 4  | 4  | 1  | 2  | 3  |
| R170      | 3                | 3 | 4 | 5 | 5 | 4 | 4 | 4 | 3 | 5  | 4  | 4  | 2  | 2  | 1  |
| R171      | 3                | 3 | 5 | 3 | 3 | 5 | 4 | 4 | 3 | 5  | 3  | 4  | 3  | 2  | 1  |
| R172      | 3                | 4 | 4 | 5 | 3 | 4 | 4 | 4 | 5 | 4  | 5  | 4  | 3  | 2  | 3  |
| R173      | 4                | 5 | 3 | 5 | 5 | 4 | 3 | 3 | 4 | 5  | 4  | 5  | 3  | 1  | 2  |
| R174      | 5                | 4 | 3 | 5 | 5 | 4 | 3 | 4 | 4 | 5  | 5  | 4  | 2  | 2  | 2  |
| R175      | 5                | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 5 | 4  | 5  | 3  | 2  | 1  | 1  |
| R176      | 4                | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 5 | 4  | 5  | 3  | 3  | 1  | 2  |
| R177      | 4                | 4 | 5 | 3 | 5 | 4 | 5 | 3 | 3 | 3  | 4  | 4  | 2  | 1  | 2  |

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|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R178      | 5                | 4 | 5 | 3 | 5 | 5 | 5 | 5 | 5 | 4  | 5  | 4  | 3  | 1  | 2  |
| R179      | 5                | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 5  | 3  | 3  | 2  | 2  | 1  |
| R180      | 5                | 3 | 4 | 4 | 5 | 5 | 4 | 5 | 4 | 4  | 3  | 3  | 2  | 2  | 3  |
| R181      | 5                | 5 | 4 | 4 | 4 | 5 | 3 | 5 | 4 | 3  | 4  | 4  | 3  | 2  | 3  |
| R182      | 4                | 5 | 4 | 3 | 4 | 4 | 4 | 5 | 3 | 3  | 3  | 3  | 1  | 2  | 2  |
| R183      | 4                | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4  | 4  | 4  | 2  | 5  | 2  |
| R184      | 4                | 5 | 3 | 2 | 4 | 5 | 3 | 5 | 5 | 5  | 3  | 2  | 2  | 1  | 2  |
| R185      | 4                | 5 | 3 | 2 | 4 | 4 | 2 | 4 | 5 | 1  | 1  | 3  | 3  | 1  | 3  |
| R186      | 4                | 4 | 4 | 2 | 4 | 1 | 1 | 4 | 4 | 1  | 1  | 3  | 5  | 5  | 2  |
| R187      | 3                | 4 | 4 | 4 | 4 | 4 | 3 | 5 | 2 | 2  | 2  | 3  | 3  | 3  | 2  |
| R188      | 4                | 5 | 3 | 3 | 4 | 5 | 3 | 4 | 4 | 3  | 4  | 3  | 3  | 4  | 2  |
| R189      | 1                | 5 | 2 | 2 | 3 | 4 | 4 | 5 | 5 | 2  | 4  | 1  | 2  | 2  | 3  |
| R190      | 4                | 4 | 3 | 1 | 3 | 3 | 3 | 4 | 4 | 2  | 2  | 2  | 2  | 4  | 2  |
| R191      | 3                | 4 | 4 | 2 | 3 | 5 | 3 | 5 | 5 | 2  | 3  | 2  | 4  | 5  | 1  |
| R192      | 2                | 5 | 3 | 2 | 4 | 2 | 2 | 5 | 4 | 2  | 1  | 1  | 5  | 4  | 2  |
| R193      | 4                | 5 | 4 | 3 | 4 | 5 | 3 | 5 | 4 | 5  | 5  | 4  | 3  | 3  | 3  |
| R194      | 4                | 5 | 5 | 3 | 4 | 2 | 2 | 5 | 3 | 2  | 3  | 3  | 4  | 2  | 1  |
| R195      | 4                | 5 | 3 | 3 | 4 | 1 | 2 | 5 | 5 | 1  | 1  | 1  | 5  | 5  | 1  |
| R196      | 4                | 4 | 4 | 3 | 4 | 3 | 2 | 4 | 4 | 4  | 4  | 3  | 4  | 3  | 3  |
| R197      | 5                | 5 | 5 | 5 | 5 | 1 | 1 | 5 | 5 | 1  | 1  | 5  | 5  | 5  | 1  |
| R198      | 4                | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4  | 4  | 4  | 3  | 2  | 2  |
| R199      | 4                | 2 | 2 | 2 | 4 | 5 | 3 | 4 | 4 | 3  | 4  | 3  | 4  | 3  | 2  |
| R200      | 4                | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 2 | 2  | 2  | 3  | 4  | 4  | 2  |
| R201      | 2                | 5 | 3 | 2 | 4 | 4 | 4 | 4 | 2 | 4  | 4  | 4  | 4  | 4  | 2  |
| R202      | 3                | 5 | 3 | 2 | 4 | 4 | 3 | 5 | 4 | 2  | 3  | 2  | 4  | 4  | 2  |
| R203      | 2                | 4 | 3 | 1 | 4 | 5 | 3 | 5 | 1 | 2  | 4  | 1  | 4  | 3  | 1  |
| R204      | 2                | 5 | 3 | 2 | 4 | 4 | 3 | 5 | 5 | 4  | 3  | 3  | 3  | 4  | 2  |
| R205      | 4                | 4 | 4 | 2 | 4 | 3 | 2 | 5 | 4 | 4  | 4  | 2  | 4  | 3  | 2  |
| R206      | 5                | 4 | 4 | 2 | 4 | 2 | 2 | 5 | 5 | 4  | 3  | 1  | 2  | 2  | 2  |
| R207      | 2                | 4 | 2 | 2 | 2 | 4 | 4 | 5 | 4 | 2  | 4  | 1  | 2  | 4  | 2  |
| R208      | 4                | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4  | 3  | 3  | 4  | 4  | 2  |
| R209      | 5                | 5 | 5 | 4 | 5 | 5 | 3 | 5 | 4 | 4  | 4  | 4  | 4  | 5  | 1  |
| R210      | 5                | 4 | 3 | 2 | 3 | 2 | 2 | 4 | 2 | 5  | 4  | 2  | 3  | 2  | 2  |
| R211      | 5                | 5 | 4 | 2 | 4 | 2 | 2 | 4 | 4 | 4  | 4  | 3  | 4  | 4  | 2  |
| R212      | 4                | 4 | 3 | 1 | 1 | 5 | 5 | 5 | 3 | 5  | 5  | 1  | 2  | 5  | 1  |
| R213      | 4                | 5 | 5 | 4 | 4 | 4 | 4 | 5 | 5 | 5  | 3  | 4  | 4  | 2  | 2  |
| R214      | 3                | 4 | 4 | 2 | 4 | 4 | 2 | 4 | 2 | 2  | 4  | 2  | 4  | 2  | 2  |
| R215      | 4                | 4 | 3 | 3 | 4 | 4 | 3 | 4 | 4 | 4  | 4  | 4  | 2  | 2  | 2  |
| R216      | 2                | 5 | 4 | 2 | 3 | 4 | 3 | 5 | 3 | 4  | 2  | 1  | 3  | 3  | 3  |
| R217      | 4                | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5  | 5  | 3  | 2  | 4  | 1  |
| R218      | 4                | 5 | 2 | 1 | 1 | 4 | 4 | 5 | 4 | 1  | 2  | 1  | 2  | 1  | 2  |
| R219      | 5                | 5 | 3 | 2 | 4 | 2 | 2 | 5 | 5 | 2  | 2  | 4  | 4  | 4  | 1  |
| R220      | 2                | 5 | 5 | 5 | 5 | 3 | 2 | 5 | 5 | 2  | 2  | 3  | 1  | 1  | 1  |
| R221      | 4                | 5 | 4 | 4 | 4 | 2 | 2 | 5 | 4 | 4  | 4  | 4  | 2  | 4  | 2  |
| R222      | 4                | 5 | 4 | 3 | 5 | 2 | 1 | 5 | 4 | 4  | 4  | 4  | 4  | 3  | 1  |
| R223      | 3                | 4 | 4 | 2 | 4 | 3 | 2 | 4 | 2 | 4  | 2  | 3  | 4  | 2  | 2  |
| R224      | 5                | 5 | 4 | 3 | 4 | 3 | 3 | 5 | 3 | 2  | 4  | 3  | 3  | 2  | 2  |
| R225      | 5                | 5 | 1 | 4 | 5 | 5 | 5 | 1 | 1 | 1  | 1  | 1  | 1  | 5  | 5  |
| R226      | 5                | 5 | 2 | 3 | 5 | 4 | 4 | 1 | 5 | 2  | 3  | 2  | 2  | 4  | 5  |
| R227      | 4                | 5 | 1 | 4 | 4 | 3 | 3 | 1 | 3 | 4  | 3  | 3  | 3  | 2  | 3  |

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|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R228      | 4                | 5 | 1 | 2 | 5 | 1 | 4 | 1 | 5 | 4  | 5  | 3  | 1  | 5  | 3  |
| R229      | 5                | 5 | 2 | 2 | 4 | 3 | 4 | 2 | 4 | 4  | 3  | 2  | 2  | 2  | 4  |
| R230      | 3                | 4 | 3 | 4 | 4 | 2 | 3 | 1 | 5 | 3  | 2  | 3  | 3  | 4  | 3  |
| R231      | 2                | 5 | 2 | 5 | 3 | 2 | 2 | 1 | 1 | 4  | 4  | 4  | 3  | 3  | 3  |
| R232      | 4                | 4 | 5 | 3 | 4 | 2 | 4 | 1 | 5 | 2  | 2  | 2  | 2  | 4  | 5  |
| R233      | 5                | 5 | 1 | 2 | 4 | 5 | 4 | 2 | 5 | 1  | 3  | 3  | 2  | 3  | 4  |
| R234      | 4                | 5 | 1 | 2 | 3 | 2 | 2 | 1 | 4 | 4  | 3  | 2  | 4  | 3  | 4  |
| R235      | 5                | 5 | 1 | 3 | 4 | 2 | 4 | 1 | 5 | 5  | 5  | 4  | 2  | 5  | 4  |
| R236      | 4                | 5 | 3 | 4 | 4 | 4 | 5 | 1 | 2 | 2  | 4  | 3  | 2  | 2  | 4  |
| R237      | 5                | 5 | 2 | 2 | 4 | 4 | 3 | 5 | 2 | 4  | 2  | 2  | 2  | 2  | 5  |
| R238      | 2                | 4 | 3 | 2 | 3 | 2 | 3 | 1 | 4 | 3  | 2  | 3  | 2  | 3  | 4  |
| R239      | 4                | 4 | 2 | 4 | 3 | 2 | 4 | 1 | 4 | 2  | 3  | 4  | 2  | 2  | 4  |
| R240      | 4                | 5 | 1 | 4 | 3 | 4 | 2 | 1 | 5 | 2  | 2  | 3  | 2  | 2  | 5  |
| R241      | 3                | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 3 | 3  | 2  | 4  | 3  | 4  | 5  |
| R242      | 3                | 4 | 2 | 2 | 4 | 4 | 4 | 2 | 2 | 2  | 2  | 3  | 2  | 4  | 4  |
| R243      | 4                | 5 | 2 | 3 | 4 | 4 | 3 | 1 | 4 | 3  | 3  | 3  | 2  | 4  | 4  |
| R244      | 4                | 4 | 2 | 4 | 3 | 1 | 3 | 1 | 5 | 3  | 4  | 4  | 3  | 4  | 3  |
| R245      | 5                | 5 | 1 | 2 | 5 | 4 | 4 | 1 | 4 | 4  | 2  | 4  | 2  | 4  | 5  |
| R246      | 4                | 5 | 3 | 4 | 5 | 4 | 3 | 1 | 5 | 2  | 2  | 3  | 3  | 1  | 4  |
| R247      | 2                | 4 | 3 | 4 | 3 | 2 | 5 | 2 | 4 | 2  | 2  | 3  | 2  | 4  | 4  |
| R248      | 4                | 5 | 2 | 4 | 4 | 1 | 3 | 2 | 4 | 2  | 4  | 3  | 3  | 2  | 4  |
| R249      | 5                | 5 | 2 | 2 | 5 | 3 | 3 | 1 | 5 | 4  | 4  | 2  | 3  | 5  | 5  |
| R250      | 4                | 5 | 3 | 3 | 4 | 2 | 4 | 1 | 4 | 4  | 3  | 4  | 2  | 4  | 4  |
| R251      | 5                | 5 | 1 | 1 | 5 | 1 | 4 | 1 | 5 | 2  | 2  | 4  | 2  | 1  | 4  |
| R252      | 4                | 5 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2  | 4  | 2  | 1  | 5  | 4  |
| R253      | 5                | 4 | 2 | 3 | 4 | 4 | 2 | 2 | 5 | 3  | 4  | 2  | 1  | 5  | 5  |
| R254      | 4                | 4 | 3 | 2 | 3 | 1 | 5 | 2 | 3 | 3  | 3  | 3  | 4  | 4  | 3  |
| R255      | 4                | 4 | 3 | 2 | 3 | 1 | 5 | 2 | 4 | 3  | 4  | 2  | 5  | 4  | 3  |
| R256      | 4                | 4 | 2 | 2 | 4 | 2 | 4 | 1 | 5 | 4  | 3  | 2  | 3  | 3  | 4  |
| R257      | 5                | 4 | 3 | 3 | 4 | 3 | 3 | 2 | 4 | 3  | 3  | 2  | 3  | 2  | 4  |
| R258      | 5                | 5 | 2 | 4 | 5 | 2 | 3 | 1 | 2 | 2  | 2  | 3  | 2  | 4  | 5  |
| R259      | 5                | 4 | 1 | 2 | 4 | 2 | 3 | 2 | 4 | 4  | 3  | 3  | 2  | 4  | 4  |
| R260      | 1                | 5 | 5 | 5 | 3 | 2 | 5 | 1 | 5 | 5  | 4  | 5  | 3  | 2  | 5  |
| R261      | 4                | 5 | 2 | 4 | 3 | 3 | 3 | 1 | 5 | 5  | 4  | 2  | 3  | 4  | 4  |
| R262      | 5                | 5 | 2 | 4 | 5 | 5 | 3 | 1 | 5 | 5  | 4  | 2  | 1  | 4  | 5  |
| R263      | 5                | 4 | 3 | 3 | 3 | 3 | 2 | 5 | 5 | 3  | 2  | 5  | 1  | 2  | 5  |
| R264      | 5                | 5 | 2 | 2 | 5 | 3 | 5 | 2 | 5 | 5  | 4  | 1  | 4  | 1  | 4  |
| R265      | 5                | 5 | 1 | 2 | 5 | 2 | 4 | 2 | 4 | 4  | 4  | 2  | 2  | 3  | 4  |
| R266      | 4                | 5 | 3 | 4 | 4 | 4 | 2 | 2 | 2 | 3  | 3  | 3  | 2  | 4  | 4  |
| R267      | 5                | 5 | 1 | 1 | 5 | 5 | 1 | 1 | 5 | 2  | 5  | 1  | 1  | 1  | 5  |
| R268      | 5                | 5 | 3 | 3 | 5 | 4 | 2 | 1 | 5 | 2  | 2  | 1  | 2  | 4  | 5  |
| R269      | 5                | 5 | 2 | 2 | 5 | 2 | 4 | 2 | 4 | 5  | 4  | 4  | 2  | 2  | 5  |
| R270      | 4                | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2  | 2  | 2  | 2  | 4  | 4  |
| R271      | 5                | 4 | 2 | 3 | 4 | 4 | 2 | 2 | 3 | 3  | 3  | 2  | 2  | 2  | 4  |
| R272      | 5                | 5 | 1 | 2 | 3 | 1 | 3 | 1 | 5 | 1  | 5  | 3  | 1  | 5  | 5  |
| R273      | 4                | 4 | 2 | 2 | 4 | 3 | 4 | 1 | 5 | 5  | 5  | 2  | 3  | 1  | 4  |
| R274      | 4                | 4 | 2 | 2 | 5 | 3 | 3 | 1 | 4 | 5  | 4  | 3  | 4  | 2  | 4  |
| R275      | 3                | 4 | 2 | 3 | 4 | 2 | 3 | 2 | 4 | 4  | 4  | 3  | 3  | 2  | 4  |



| Responden | Nomor Pertanyaan |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R276      | 5                | 5 | 2 | 2 | 4 | 3 | 2 | 2 | 4 | 3  | 2  | 1  | 4  | 2  | 4  |
| R277      | 5                | 5 | 2 | 3 | 5 | 3 | 3 | 1 | 5 | 5  | 4  | 2  | 3  | 4  | 5  |
| R278      | 4                | 4 | 3 | 3 | 4 | 2 | 3 | 1 | 4 | 3  | 4  | 3  | 3  | 2  | 4  |
| R279      | 5                | 5 | 1 | 1 | 5 | 1 | 5 | 2 | 4 | 4  | 4  | 3  | 5  | 2  | 4  |
| R280      | 4                | 4 | 2 | 2 | 4 | 2 | 4 | 3 | 3 | 3  | 3  | 4  | 4  | 3  | 3  |
| R281      | 4                | 4 | 2 | 3 | 4 | 2 | 2 | 1 | 4 | 4  | 4  | 2  | 4  | 2  | 4  |
| R282      | 4                | 5 | 2 | 4 | 4 | 4 | 4 | 1 | 5 | 5  | 4  | 5  | 4  | 2  | 4  |
| R283      | 4                | 4 | 2 | 4 | 4 | 3 | 3 | 2 | 4 | 3  | 4  | 3  | 2  | 4  | 4  |
| R284      | 5                | 5 | 1 | 2 | 5 | 5 | 1 | 1 | 4 | 4  | 5  | 1  | 1  | 3  | 5  |
| R285      | 2                | 4 | 2 | 4 | 4 | 2 | 2 | 2 | 2 | 2  | 4  | 4  | 3  | 1  | 2  |
| R286      | 5                | 5 | 1 | 5 | 5 | 5 | 1 | 1 | 5 | 5  | 5  | 3  | 1  | 5  | 5  |
| R287      | 5                | 5 | 1 | 3 | 4 | 4 | 2 | 1 | 5 | 3  | 3  | 2  | 3  | 5  | 5  |
| R288      | 4                | 4 | 2 | 3 | 4 | 4 | 2 | 2 | 2 | 2  | 2  | 4  | 2  | 4  | 4  |
| R289      | 4                | 4 | 3 | 4 | 4 | 4 | 2 | 2 | 2 | 2  | 2  | 3  | 2  | 4  | 4  |
| R290      | 4                | 5 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3  | 2  | 3  | 1  | 3  | 4  |
| R291      | 4                | 5 | 2 | 4 | 5 | 4 | 2 | 1 | 4 | 2  | 2  | 1  | 1  | 4  | 4  |
| R292      | 4                | 4 | 2 | 3 | 4 | 2 | 3 | 2 | 4 | 4  | 4  | 3  | 3  | 4  | 4  |
| R293      | 4                | 4 | 2 | 2 | 4 | 4 | 2 | 2 | 4 | 2  | 4  | 2  | 2  | 4  | 4  |
| R294      | 5                | 5 | 3 | 4 | 5 | 1 | 2 | 1 | 5 | 2  | 4  | 2  | 2  | 5  | 5  |
| R295      | 5                | 4 | 3 | 3 | 4 | 4 | 2 | 2 | 5 | 2  | 2  | 3  | 2  | 3  | 4  |
| R296      | 5                | 5 | 2 | 3 | 3 | 2 | 3 | 2 | 4 | 3  | 4  | 3  | 2  | 2  | 4  |
| R297      | 4                | 4 | 2 | 3 | 4 | 3 | 2 | 2 | 2 | 3  | 4  | 3  | 2  | 4  | 4  |
| R298      | 5                | 4 | 2 | 3 | 4 | 3 | 3 | 1 | 3 | 3  | 3  | 3  | 2  | 3  | 4  |
| R299      | 5                | 5 | 2 | 4 | 4 | 5 | 1 | 2 | 4 | 1  | 1  | 2  | 1  | 5  | 5  |
| R300      | 4                | 4 | 2 | 4 | 4 | 1 | 4 | 1 | 5 | 3  | 4  | 4  | 3  | 2  | 4  |
| R301      | 4                | 5 | 3 | 3 | 4 | 2 | 3 | 1 | 5 | 3  | 3  | 4  | 2  | 4  | 4  |
| R302      | 5                | 5 | 3 | 3 | 4 | 4 | 2 | 2 | 4 | 2  | 2  | 3  | 1  | 5  | 5  |
| R303      | 4                | 4 | 2 | 3 | 4 | 4 | 1 | 1 | 4 | 2  | 3  | 2  | 1  | 3  | 5  |
| R304      | 5                | 5 | 3 | 3 | 4 | 5 | 2 | 2 | 4 | 4  | 2  | 3  | 2  | 3  | 5  |
| R305      | 3                | 3 | 2 | 3 | 2 | 1 | 3 | 3 | 1 | 3  | 3  | 4  | 3  | 2  | 3  |
| R306      | 4                | 5 | 2 | 4 | 4 | 2 | 3 | 1 | 2 | 4  | 4  | 3  | 2  | 5  | 4  |
| R307      | 4                | 4 | 2 | 4 | 3 | 1 | 4 | 2 | 5 | 4  | 2  | 5  | 3  | 2  | 4  |
| R308      | 4                | 5 | 3 | 3 | 4 | 3 | 3 | 2 | 4 | 3  | 3  | 3  | 3  | 3  | 4  |
| R309      | 4                | 4 | 2 | 3 | 4 | 2 | 2 | 1 | 2 | 3  | 2  | 2  | 2  | 4  | 4  |
| R310      | 3                | 5 | 3 | 4 | 4 | 4 | 2 | 2 | 2 | 2  | 2  | 3  | 2  | 3  | 4  |
| R311      | 4                | 5 | 2 | 3 | 4 | 4 | 3 | 2 | 4 | 2  | 3  | 3  | 3  | 2  | 4  |
| R312      | 5                | 5 | 2 | 4 | 5 | 3 | 3 | 1 | 5 | 5  | 3  | 1  | 1  | 5  | 5  |
| R313      | 4                | 5 | 1 | 4 | 4 | 2 | 3 | 1 | 2 | 3  | 4  | 3  | 2  | 4  | 4  |
| R314      | 5                | 5 | 1 | 4 | 4 | 3 | 2 | 1 | 2 | 4  | 2  | 4  | 2  | 3  | 4  |
| R315      | 5                | 5 | 1 | 1 | 5 | 4 | 2 | 1 | 5 | 2  | 5  | 1  | 5  | 1  | 5  |
| R316      | 4                | 4 | 2 | 3 | 4 | 4 | 3 | 1 | 4 | 3  | 3  | 4  | 3  | 4  | 4  |
| R317      | 2                | 5 | 3 | 4 | 3 | 2 | 2 | 1 | 5 | 5  | 5  | 3  | 2  | 1  | 5  |
| R318      | 4                | 5 | 2 | 4 | 5 | 3 | 2 | 1 | 5 | 5  | 5  | 1  | 2  | 4  | 5  |
| R319      | 5                | 4 | 2 | 2 | 4 | 4 | 3 | 1 | 5 | 2  | 4  | 2  | 3  | 3  | 4  |
| R320      | 4                | 4 | 2 | 4 | 4 | 5 | 2 | 2 | 4 | 2  | 3  | 3  | 2  | 4  | 4  |
| R321      | 5                | 5 | 2 | 4 | 4 | 2 | 4 | 1 | 5 | 4  | 5  | 3  | 2  | 3  | 5  |
| R322      | 5                | 5 | 1 | 1 | 5 | 4 | 2 | 1 | 5 | 2  | 2  | 1  | 1  | 4  | 5  |
| R323      | 5                | 5 | 1 | 1 | 5 | 2 | 4 | 4 | 2 | 3  | 5  | 1  | 5  | 1  | 5  |
| R324      | 5                | 5 | 3 | 5 | 4 | 4 | 2 | 1 | 5 | 2  | 1  | 3  | 2  | 5  | 5  |



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|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R325      | 5                | 3 | 4 | 4 | 4 | 2 | 2 | 1 | 5 | 1  | 1  | 5  | 4  | 2  | 4  |
| R326      | 3                | 2 | 2 | 4 | 4 | 4 | 1 | 2 | 4 | 1  | 4  | 4  | 3  | 4  | 4  |
| R327      | 4                | 5 | 2 | 3 | 5 | 4 | 1 | 1 | 4 | 5  | 3  | 5  | 1  | 5  | 5  |
| R328      | 3                | 5 | 3 | 4 | 3 | 1 | 3 | 1 | 4 | 1  | 3  | 5  | 2  | 4  | 3  |
| R329      | 4                | 2 | 4 | 4 | 3 | 2 | 5 | 1 | 2 | 3  | 2  | 4  | 4  | 1  | 3  |
| R330      | 5                | 3 | 4 | 4 | 4 | 2 | 2 | 1 | 5 | 1  | 1  | 5  | 2  | 2  | 4  |
| R331      | 5                | 5 | 1 | 4 | 5 | 1 | 4 | 1 | 2 | 2  | 2  | 1  | 2  | 4  | 5  |
| R332      | 2                | 5 | 4 | 4 | 4 | 4 | 2 | 2 | 4 | 4  | 4  | 2  | 2  | 4  | 4  |
| R333      | 4                | 5 | 3 | 3 | 5 | 4 | 2 | 1 | 4 | 2  | 1  | 3  | 2  | 4  | 4  |
| R334      | 5                | 4 | 4 | 4 | 2 | 3 | 3 | 2 | 5 | 2  | 3  | 3  | 2  | 2  | 4  |
| R335      | 4                | 5 | 3 | 3 | 4 | 3 | 3 | 1 | 5 | 3  | 5  | 3  | 1  | 3  | 5  |
| R336      | 5                | 5 | 2 | 4 | 5 | 4 | 1 | 1 | 5 | 2  | 4  | 2  | 1  | 1  | 5  |
| R337      | 3                | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3  | 3  | 2  | 2  | 3  | 3  |
| R338      | 4                | 5 | 1 | 3 | 4 | 4 | 3 | 1 | 5 | 2  | 3  | 2  | 3  | 2  | 5  |
| R339      | 4                | 5 | 2 | 3 | 3 | 2 | 3 | 1 | 5 | 4  | 2  | 3  | 2  | 5  | 4  |
| R340      | 2                | 5 | 2 | 4 | 5 | 4 | 2 | 1 | 5 | 4  | 5  | 1  | 1  | 4  | 5  |
| R341      | 5                | 5 | 4 | 4 | 5 | 1 | 3 | 1 | 5 | 3  | 4  | 3  | 2  | 5  | 5  |
| R342      | 5                | 5 | 5 | 5 | 5 | 5 | 4 | 1 | 1 | 1  | 1  | 1  | 5  | 5  | 5  |
| R343      | 5                | 5 | 1 | 1 | 5 | 3 | 3 | 1 | 5 | 5  | 4  | 1  | 1  | 5  | 5  |
| R344      | 4                | 4 | 3 | 3 | 3 | 1 | 3 | 2 | 4 | 4  | 4  | 2  | 3  | 4  | 4  |
| R345      | 4                | 4 | 2 | 3 | 3 | 2 | 4 | 2 | 4 | 4  | 4  | 3  | 4  | 4  | 4  |
| R346      | 5                | 5 | 3 | 4 | 5 | 4 | 2 | 1 | 5 | 3  | 5  | 1  | 1  | 5  | 5  |
| R347      | 5                | 5 | 2 | 3 | 4 | 4 | 2 | 1 | 4 | 2  | 2  | 3  | 2  | 4  | 4  |
| R348      | 5                | 5 | 2 | 4 | 4 | 4 | 2 | 2 | 4 | 4  | 2  | 3  | 2  | 4  | 4  |
| R349      | 5                | 5 | 2 | 2 | 5 | 4 | 2 | 1 | 5 | 5  | 3  | 2  | 1  | 3  | 5  |
| R350      | 4                | 4 | 2 | 4 | 4 | 3 | 2 | 2 | 4 | 2  | 4  | 2  | 2  | 4  | 4  |
| R351      | 4                | 5 | 2 | 2 | 4 | 3 | 3 | 2 | 4 | 3  | 3  | 2  | 2  | 4  | 5  |
| R352      | 3                | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3  | 3  | 3  | 3  | 3  | 3  |
| R353      | 4                | 5 | 1 | 2 | 5 | 4 | 2 | 2 | 2 | 2  | 2  | 2  | 2  | 2  | 4  |
| R354      | 3                | 4 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 4  | 4  | 3  | 3  | 2  | 4  |
| R355      | 4                | 4 | 2 | 2 | 4 | 2 | 3 | 2 | 3 | 2  | 2  | 2  | 2  | 4  | 3  |
| R356      | 5                | 5 | 2 | 3 | 4 | 4 | 2 | 1 | 4 | 3  | 4  | 3  | 2  | 3  | 5  |
| R357      | 3                | 4 | 3 | 4 | 4 | 2 | 3 | 1 | 4 | 4  | 3  | 4  | 3  | 4  | 4  |
| R358      | 4                | 4 | 2 | 3 | 4 | 3 | 3 | 2 | 5 | 3  | 3  | 3  | 2  | 3  | 4  |
| R359      | 4                | 4 | 2 | 4 | 3 | 2 | 2 | 2 | 4 | 4  | 4  | 3  | 2  | 2  | 3  |
| R360      | 5                | 5 | 1 | 3 | 4 | 3 | 3 | 1 | 5 | 2  | 2  | 2  | 3  | 3  | 4  |
| R361      | 4                | 4 | 3 | 4 | 4 | 4 | 2 | 2 | 4 | 4  | 3  | 3  | 2  | 2  | 4  |
| R362      | 5                | 5 | 2 | 5 | 2 | 3 | 4 | 1 | 5 | 3  | 5  | 5  | 4  | 4  | 4  |
| R363      | 5                | 5 | 2 | 3 | 4 | 3 | 2 | 1 | 4 | 4  | 3  | 3  | 2  | 2  | 5  |
| R364      | 5                | 5 | 3 | 4 | 3 | 2 | 3 | 1 | 2 | 3  | 4  | 3  | 4  | 1  | 4  |

| Responden | Nomor Pertanyaan |    |    |    |    |    |    |    |    |    | Nilai |
|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R1        | 4                | 3  | 1  | 5  | 1  | 5  | 5  | 3  | 5  | 5  | 89    |
| R2        | 5                | 5  | 1  | 4  | 2  | 5  | 5  | 2  | 5  | 5  | 84    |
| R3        | 5                | 2  | 2  | 1  | 1  | 5  | 5  | 1  | 5  | 5  | 81    |
| R4        | 4                | 3  | 2  | 5  | 2  | 3  | 4  | 3  | 4  | 5  | 85    |

| Responden | Nomor Pertanyaan |    |    |    |    |    |    |    |    |    | Nilai |
|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R5        | 5                | 4  | 2  | 5  | 2  | 4  | 4  | 1  | 5  | 5  | 84    |
| R6        | 4                | 5  | 2  | 5  | 1  | 4  | 4  | 2  | 5  | 2  | 84    |
| R7        | 3                | 5  | 2  | 5  | 2  | 5  | 5  | 3  | 4  | 5  | 87    |
| R8        | 5                | 3  | 1  | 5  | 1  | 5  | 4  | 2  | 5  | 5  | 83    |
| R9        | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 3  | 4  | 4  | 81    |
| R10       | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 88    |
| R11       | 4                | 4  | 2  | 5  | 1  | 5  | 5  | 2  | 4  | 5  | 85    |
| R12       | 5                | 5  | 2  | 5  | 1  | 5  | 4  | 1  | 5  | 5  | 82    |
| R13       | 4                | 3  | 2  | 4  | 2  | 5  | 4  | 2  | 4  | 5  | 88    |
| R14       | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 5  | 85    |
| R15       | 2                | 4  | 4  | 4  | 2  | 4  | 3  | 4  | 2  | 2  | 76    |
| R16       | 5                | 2  | 1  | 5  | 1  | 5  | 5  | 2  | 4  | 4  | 81    |
| R17       | 2                | 3  | 1  | 4  | 1  | 5  | 3  | 2  | 5  | 3  | 89    |
| R18       | 4                | 4  | 1  | 3  | 1  | 5  | 5  | 2  | 5  | 5  | 85    |
| R19       | 4                | 4  | 2  | 1  | 1  | 4  | 4  | 2  | 4  | 4  | 75    |
| R20       | 4                | 3  | 2  | 2  | 2  | 4  | 4  | 2  | 4  | 3  | 84    |
| R21       | 3                | 3  | 2  | 5  | 1  | 5  | 5  | 3  | 4  | 5  | 85    |
| R22       | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 3  | 5  | 3  | 82    |
| R23       | 4                | 4  | 2  | 4  | 2  | 5  | 5  | 1  | 4  | 4  | 90    |
| R24       | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 3  | 4  | 80    |
| R25       | 4                | 3  | 2  | 4  | 2  | 3  | 3  | 2  | 3  | 3  | 83    |
| R26       | 4                | 3  | 2  | 5  | 1  | 3  | 4  | 2  | 1  | 4  | 83    |
| R27       | 5                | 5  | 3  | 1  | 1  | 1  | 5  | 3  | 4  | 2  | 83    |
| R28       | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 4  | 2  | 85    |
| R29       | 5                | 3  | 1  | 5  | 2  | 5  | 4  | 1  | 5  | 5  | 85    |
| R30       | 5                | 3  | 1  | 5  | 1  | 5  | 5  | 1  | 1  | 1  | 85    |
| R31       | 3                | 2  | 1  | 5  | 1  | 5  | 3  | 3  | 1  | 1  | 85    |
| R32       | 4                | 2  | 2  | 5  | 1  | 4  | 4  | 2  | 5  | 5  | 86    |
| R33       | 5                | 5  | 2  | 5  | 4  | 5  | 4  | 1  | 3  | 3  | 86    |
| R34       | 3                | 3  | 2  | 5  | 2  | 4  | 4  | 3  | 3  | 4  | 86    |
| R35       | 5                | 5  | 1  | 5  | 1  | 4  | 3  | 2  | 3  | 3  | 86    |
| R36       | 5                | 3  | 2  | 4  | 2  | 4  | 4  | 2  | 3  | 4  | 80    |
| R37       | 3                | 5  | 1  | 5  | 1  | 5  | 5  | 2  | 5  | 5  | 89    |
| R38       | 2                | 5  | 2  | 5  | 2  | 3  | 4  | 3  | 3  | 5  | 84    |
| R39       | 4                | 3  | 1  | 5  | 2  | 5  | 5  | 1  | 5  | 3  | 85    |
| R40       | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 91    |
| R41       | 4                | 4  | 3  | 2  | 2  | 4  | 4  | 2  | 2  | 4  | 84    |
| R42       | 4                | 3  | 2  | 5  | 1  | 4  | 4  | 1  | 4  | 2  | 82    |
| R43       | 4                | 5  | 1  | 5  | 1  | 5  | 5  | 4  | 3  | 5  | 86    |
| R44       | 5                | 1  | 1  | 5  | 1  | 5  | 5  | 2  | 5  | 5  | 77    |
| R45       | 5                | 3  | 1  | 5  | 1  | 5  | 5  | 2  | 4  | 5  | 89    |
| R46       | 3                | 3  | 3  | 5  | 2  | 3  | 3  | 3  | 2  | 1  | 77    |
| R47       | 4                | 5  | 1  | 5  | 2  | 4  | 4  | 2  | 4  | 5  | 85    |
| R48       | 5                | 4  | 1  | 2  | 2  | 5  | 4  | 2  | 5  | 5  | 84    |
| R49       | 4                | 3  | 1  | 4  | 2  | 4  | 4  | 2  | 3  | 4  | 74    |
| R50       | 4                | 4  | 1  | 5  | 1  | 5  | 4  | 2  | 5  | 5  | 87    |

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|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R51       | 4                | 5  | 1  | 5  | 1  | 4  | 4  | 2  | 5  | 5  | 77    |
| R52       | 2                | 5  | 2  | 3  | 5  | 4  | 4  | 1  | 5  | 3  | 76    |
| R53       | 4                | 5  | 2  | 4  | 2  | 5  | 4  | 2  | 4  | 5  | 83    |
| R54       | 3                | 4  | 2  | 2  | 2  | 4  | 4  | 2  | 3  | 5  | 79    |
| R55       | 5                | 1  | 2  | 5  | 1  | 4  | 3  | 2  | 2  | 1  | 75    |
| R56       | 5                | 5  | 1  | 5  | 1  | 5  | 3  | 2  | 4  | 4  | 88    |
| R57       | 4                | 3  | 3  | 5  | 1  | 5  | 4  | 3  | 5  | 4  | 89    |
| R58       | 3                | 3  | 2  | 5  | 1  | 4  | 4  | 3  | 4  | 4  | 87    |
| R59       | 4                | 2  | 1  | 5  | 1  | 5  | 5  | 1  | 4  | 3  | 76    |
| R60       | 3                | 5  | 1  | 5  | 1  | 5  | 4  | 2  | 5  | 5  | 92    |
| R61       | 5                | 5  | 1  | 5  | 2  | 4  | 4  | 1  | 4  | 5  | 84    |
| R62       | 5                | 4  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 92    |
| R63       | 5                | 4  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 85    |
| R64       | 3                | 4  | 2  | 3  | 2  | 4  | 4  | 3  | 2  | 4  | 77    |
| R65       | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 89    |
| R66       | 3                | 4  | 3  | 2  | 2  | 3  | 3  | 4  | 2  | 4  | 73    |
| R67       | 3                | 5  | 1  | 2  | 2  | 4  | 4  | 2  | 5  | 4  | 78    |
| R68       | 3                | 5  | 2  | 5  | 2  | 5  | 4  | 3  | 4  | 3  | 84    |
| R69       | 4                | 5  | 2  | 5  | 2  | 4  | 4  | 2  | 4  | 4  | 75    |
| R70       | 4                | 4  | 2  | 5  | 1  | 5  | 5  | 1  | 4  | 4  | 78    |
| R71       | 5                | 5  | 3  | 5  | 2  | 4  | 4  | 3  | 4  | 4  | 85    |
| R72       | 2                | 5  | 1  | 2  | 2  | 4  | 4  | 3  | 2  | 2  | 76    |
| R73       | 3                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 2  | 81    |
| R74       | 4                | 4  | 2  | 4  | 2  | 4  | 3  | 2  | 4  | 4  | 75    |
| R75       | 4                | 5  | 2  | 2  | 2  | 4  | 3  | 2  | 3  | 4  | 83    |
| R76       | 4                | 3  | 2  | 5  | 2  | 4  | 4  | 1  | 2  | 5  | 79    |
| R77       | 3                | 4  | 2  | 4  | 2  | 4  | 4  | 3  | 4  | 2  | 80    |
| R78       | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 84    |
| R79       | 4                | 3  | 2  | 4  | 2  | 4  | 4  | 2  | 2  | 4  | 79    |
| R80       | 4                | 5  | 2  | 5  | 3  | 5  | 4  | 2  | 2  | 5  | 85    |
| R81       | 4                | 4  | 2  | 4  | 1  | 4  | 4  | 2  | 3  | 2  | 74    |
| R82       | 5                | 4  | 2  | 3  | 2  | 4  | 4  | 2  | 5  | 5  | 81    |
| R83       | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 80    |
| R84       | 3                | 2  | 2  | 5  | 2  | 4  | 3  | 2  | 2  | 5  | 78    |
| R85       | 5                | 4  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 87    |
| R86       | 5                | 5  | 3  | 3  | 1  | 5  | 5  | 3  | 4  | 4  | 92    |
| R87       | 4                | 4  | 1  | 3  | 2  | 4  | 5  | 2  | 4  | 4  | 87    |
| R88       | 4                | 5  | 2  | 5  | 4  | 4  | 4  | 3  | 4  | 2  | 87    |
| R89       | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 83    |
| R90       | 4                | 4  | 2  | 5  | 2  | 4  | 4  | 2  | 5  | 5  | 87    |
| R91       | 5                | 4  | 2  | 4  | 2  | 5  | 5  | 2  | 5  | 5  | 83    |
| R92       | 5                | 3  | 1  | 5  | 1  | 4  | 5  | 2  | 4  | 2  | 78    |
| R93       | 5                | 5  | 1  | 4  | 1  | 5  | 5  | 1  | 5  | 5  | 83    |
| R94       | 3                | 4  | 2  | 5  | 1  | 5  | 4  | 2  | 4  | 3  | 77    |
| R95       | 5                | 5  | 1  | 5  | 1  | 5  | 4  | 1  | 5  | 5  | 86    |
| R96       | 5                | 3  | 1  | 5  | 1  | 5  | 4  | 1  | 4  | 5  | 85    |

| Responden | Nomor Pertanyaan |    |    |    |    |    |    |    |    |    | Nilai |
|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R97       | 5                | 3  | 1  | 4  | 1  | 5  | 5  | 1  | 4  | 5  | 84    |
| R98       | 3                | 5  | 1  | 5  | 3  | 4  | 3  | 3  | 2  | 2  | 78    |
| R99       | 4                | 4  | 3  | 2  | 2  | 3  | 3  | 3  | 4  | 5  | 83    |
| R100      | 5                | 2  | 2  | 5  | 1  | 5  | 4  | 2  | 5  | 5  | 87    |
| R101      | 3                | 3  | 3  | 5  | 2  | 4  | 4  | 3  | 4  | 2  | 80    |
| R102      | 5                | 4  | 1  | 5  | 1  | 5  | 5  | 1  | 4  | 5  | 86    |
| R103      | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 4  | 5  | 87    |
| R104      | 4                | 4  | 1  | 4  | 1  | 5  | 5  | 2  | 5  | 5  | 89    |
| R105      | 4                | 4  | 1  | 4  | 1  | 5  | 5  | 2  | 5  | 5  | 87    |
| R106      | 3                | 5  | 1  | 5  | 2  | 3  | 4  | 2  | 3  | 4  | 82    |
| R107      | 4                | 4  | 2  | 4  | 1  | 4  | 4  | 2  | 5  | 5  | 86    |
| R108      | 5                | 3  | 2  | 5  | 1  | 5  | 4  | 2  | 5  | 5  | 89    |
| R109      | 5                |    | 2  | 3  | 2  | 5  | 4  | 2  | 2  | 5  | 79    |
| R110      | 3                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 1  | 81    |
| R111      | 3                | 4  | 3  | 1  | 5  | 5  | 3  | 2  | 5  | 5  | 82    |
| R112      | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 86    |
| R113      | 4                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 81    |
| R114      | 4                | 4  | 2  | 3  | 2  | 3  | 5  | 1  | 5  | 4  | 73    |
| R115      | 5                | 3  | 5  | 3  | 3  | 4  | 5  | 2  | 4  | 4  | 80    |
| R116      | 3                | 4  | 3  | 3  | 1  | 4  | 4  | 1  | 4  | 5  | 83    |
| R117      | 4                | 5  | 3  | 3  | 1  | 4  | 5  | 1  | 4  | 5  | 90    |
| R118      | 5                | 5  | 3  | 5  | 3  | 3  | 2  | 2  | 3  | 4  | 80    |
| R119      | 4                | 4  | 2  | 3  | 3  | 5  | 2  | 3  | 5  | 4  | 82    |
| R120      | 2                | 3  | 2  | 5  | 3  | 4  | 5  | 1  | 3  | 4  | 76    |
| R121      | 4                | 5  | 2  | 5  | 2  | 3  | 5  | 1  | 4  | 2  | 77    |
| R122      | 3                | 4  | 2  | 2  | 2  | 4  | 3  | 2  | 3  | 3  | 65    |
| R123      | 4                | 5  | 1  | 4  | 2  | 5  | 5  | 3  | 4  | 4  | 74    |
| R124      | 5                | 3  | 3  | 4  | 2  | 5  | 4  | 2  | 4  | 4  | 81    |
| R125      | 4                | 5  | 2  | 4  | 2  | 5  | 5  | 2  | 4  | 4  | 83    |
| R126      | 5                | 2  | 1  | 3  | 3  | 5  | 5  | 1  | 4  | 1  | 78    |
| R127      | 3                | 3  | 4  | 4  | 5  | 3  | 2  | 3  | 4  | 4  | 90    |
| R128      | 4                | 3  | 4  | 4  | 3  | 4  | 1  | 4  | 3  | 5  | 91    |
| R129      | 4                | 2  | 5  | 4  | 5  | 3  | 1  | 5  | 3  | 4  | 93    |
| R130      | 4                | 3  | 5  | 5  | 4  | 5  | 1  | 4  | 5  | 4  | 99    |
| R131      | 5                | 3  | 5  | 3  | 5  | 3  | 3  | 3  | 3  | 4  | 91    |
| R132      | 4                | 3  | 3  | 5  | 4  | 5  | 1  | 3  | 4  | 3  | 87    |
| R133      | 4                | 1  | 4  | 4  | 3  | 4  | 1  | 4  | 4  | 5  | 91    |
| R134      | 4                | 3  | 5  | 5  | 5  | 3  | 1  | 3  | 4  | 3  | 91    |
| R135      | 3                | 1  | 5  | 4  | 3  | 4  | 3  | 5  | 4  | 4  | 89    |
| R136      | 3                | 1  | 4  | 3  | 4  | 3  | 3  | 3  | 4  | 3  | 91    |
| R137      | 3                | 2  | 5  | 5  | 4  | 5  | 3  | 5  | 5  | 5  | 94    |
| R138      | 3                | 3  | 4  | 3  | 3  | 3  | 1  | 5  | 4  | 4  | 84    |
| R139      | 3                | 1  | 5  | 4  | 3  | 3  | 1  | 4  | 3  | 5  | 91    |
| R140      | 3                | 1  | 3  | 4  | 4  | 4  | 3  | 3  | 4  | 3  | 78    |
| R141      | 3                | 2  | 5  | 3  | 3  | 5  | 1  | 4  | 3  | 5  | 88    |
| R142      | 4                | 1  | 5  | 4  | 4  | 4  | 3  | 5  | 3  | 4  | 91    |

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|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R143      | 3                | 1  | 5  | 4  | 5  | 5  | 3  | 4  | 5  | 4  | 92    |
| R144      | 3                | 1  | 4  | 4  | 3  | 5  | 1  | 4  | 5  | 3  | 86    |
| R145      | 5                | 2  | 3  | 5  | 3  | 5  | 3  | 5  | 4  | 5  | 93    |
| R146      | 4                | 3  | 4  | 3  | 4  | 3  | 1  | 3  | 5  | 3  | 90    |
| R147      | 5                | 1  | 5  | 4  | 5  | 3  | 2  | 4  | 5  | 5  | 92    |
| R148      | 4                | 2  | 5  | 4  | 5  | 5  | 2  | 3  | 4  | 5  | 86    |
| R149      | 3                | 3  | 5  | 4  | 3  | 3  | 3  | 3  | 3  | 5  | 91    |
| R150      | 3                | 2  | 4  | 4  | 5  | 3  | 2  | 5  | 3  | 3  | 87    |
| R151      | 3                | 1  | 5  | 3  | 4  | 5  | 2  | 3  | 4  | 4  | 95    |
| R152      | 5                | 3  | 4  | 4  | 5  | 5  | 1  | 5  | 5  | 4  | 96    |
| R153      | 4                | 2  | 5  | 3  | 5  | 5  | 1  | 4  | 3  | 5  | 92    |
| R154      | 5                | 2  | 3  | 5  | 5  | 5  | 2  | 4  | 3  | 5  | 95    |
| R155      | 3                | 2  | 5  | 4  | 5  | 4  | 2  | 4  | 4  | 3  | 90    |
| R156      | 5                | 1  | 5  | 3  | 3  | 3  | 3  | 3  | 4  | 3  | 89    |
| R157      | 4                | 1  | 5  | 4  | 5  | 4  | 2  | 3  | 3  | 5  | 90    |
| R158      | 5                | 3  | 3  | 3  | 5  | 4  | 1  | 4  | 3  | 5  | 94    |
| R159      | 4                | 3  | 5  | 3  | 3  | 4  | 1  | 4  | 5  | 5  | 86    |
| R160      | 4                | 2  | 5  | 4  | 4  | 5  | 1  | 5  | 4  | 4  | 93    |
| R161      | 3                | 1  | 3  | 5  | 3  | 4  | 3  | 5  | 4  | 5  | 92    |
| R162      | 4                | 3  | 5  | 4  | 4  | 5  | 1  | 4  | 4  | 4  | 88    |
| R163      | 4                | 2  | 4  | 4  | 5  | 4  | 2  | 4  | 3  | 5  | 87    |
| R164      | 5                | 3  | 4  | 4  | 3  | 4  | 2  | 3  | 5  | 4  | 89    |
| R165      | 4                | 2  | 4  | 3  | 4  | 3  | 1  | 5  | 4  | 5  | 93    |
| R166      | 5                | 3  | 4  | 3  | 4  | 5  | 3  | 3  | 3  | 4  | 95    |
| R167      | 3                | 1  | 5  | 5  | 4  | 3  | 2  | 5  | 3  | 5  | 87    |
| R168      | 4                | 3  | 4  | 3  | 3  | 4  | 2  | 3  | 4  | 5  | 88    |
| R169      | 3                | 2  | 5  | 5  | 3  | 4  | 1  | 5  | 4  | 3  | 90    |
| R170      | 4                | 3  | 3  | 4  | 5  | 4  | 3  | 5  | 3  | 4  | 91    |
| R171      | 5                | 1  | 3  | 3  | 3  | 3  | 1  | 3  | 3  | 4  | 80    |
| R172      | 3                | 1  | 4  | 3  | 4  | 4  | 1  | 4  | 3  | 3  | 87    |
| R173      | 4                | 3  | 4  | 4  | 5  | 5  | 3  | 3  | 5  | 5  | 97    |
| R174      | 3                | 1  | 5  | 3  | 3  | 4  | 3  | 4  | 3  | 3  | 89    |
| R175      | 5                | 3  | 5  | 3  | 5  | 3  | 3  | 5  | 3  | 3  | 87    |
| R176      | 4                | 1  | 3  | 3  | 5  | 4  | 3  | 3  | 4  | 5  | 86    |
| R177      | 4                | 1  | 5  | 3  | 4  | 5  | 2  | 5  | 3  | 4  | 88    |
| R178      | 3                | 3  | 3  | 4  | 4  | 5  | 1  | 5  | 5  | 5  | 99    |
| R179      | 5                | 2  | 4  | 4  | 5  | 5  | 3  | 3  | 3  | 4  | 89    |
| R180      | 3                | 3  | 4  | 4  | 4  | 4  | 3  | 5  | 5  | 3  | 94    |
| R181      | 5                | 2  | 3  | 4  | 5  | 5  | 1  | 4  | 5  | 3  | 95    |
| R182      | 5                | 3  | 3  | 3  | 5  | 5  | 3  | 3  | 3  | 4  | 87    |
| R183      | 4                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 4  | 4  | 92    |
| R184      | 2                | 2  | 4  | 4  | 2  | 2  | 3  | 2  | 1  | 3  | 76    |
| R185      | 3                | 5  | 3  | 5  | 5  | 5  | 3  | 3  | 3  | 5  | 85    |
| R186      | 4                | 3  | 4  | 5  | 4  | 4  | 2  | 4  | 1  | 5  | 81    |
| R187      | 3                | 3  | 3  | 4  | 3  | 4  | 3  | 3  | 3  | 4  | 81    |
| R188      | 4                | 2  | 4  | 4  | 4  | 3  | 2  | 3  | 3  | 4  | 87    |

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|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R189      | 1                | 5  | 4  | 4  | 3  | 3  | 3  | 2  | 2  | 4  | 76    |
| R190      | 3                | 3  | 3  | 4  | 3  | 4  | 3  | 3  | 1  | 4  | 74    |
| R191      | 4                | 3  | 4  | 4  | 4  | 4  | 2  | 4  | 2  | 4  | 86    |
| R192      | 3                | 3  | 4  | 5  | 5  | 5  | 1  | 3  | 4  | 5  | 82    |
| R193      | 5                | 1  | 4  | 4  | 5  | 4  | 3  | 4  | 4  | 5  | 99    |
| R194      | 3                | 3  | 4  | 3  | 4  | 4  | 2  | 2  | 4  | 4  | 81    |
| R195      | 4                | 4  | 4  | 5  | 5  | 5  | 1  | 5  | 4  | 5  | 88    |
| R196      | 4                | 2  | 3  | 4  | 3  | 3  | 2  | 3  | 3  | 4  | 84    |
| R197      | 5                | 3  | 5  | 5  | 5  | 5  | 1  | 5  | 5  | 5  | 99    |
| R198      | 4                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 4  | 88    |
| R199      | 3                | 3  | 4  | 2  | 4  | 3  | 3  | 3  | 2  | 4  | 80    |
| R200      | 4                | 3  | 3  | 4  | 3  | 3  | 3  | 4  | 4  | 4  | 80    |
| R201      | 4                | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 2  | 2  | 82    |
| R202      | 2                | 2  | 4  | 4  | 4  | 4  | 2  | 3  | 2  | 4  | 81    |
| R203      | 3                | 3  | 5  | 5  | 4  | 5  | 2  | 4  | 2  | 5  | 81    |
| R204      | 4                | 3  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 4  | 88    |
| R205      | 4                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 4  | 86    |
| R206      | 4                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 4  | 4  | 83    |
| R207      | 2                | 4  | 2  | 2  | 2  | 2  | 4  | 2  | 2  | 2  | 68    |
| R208      | 3                | 2  | 4  | 4  | 4  | 4  | 2  | 3  | 4  | 4  | 88    |
| R209      | 4                | 2  | 5  | 5  | 5  | 4  | 1  | 4  | 5  | 5  | 103   |
| R210      | 3                | 2  | 4  | 3  | 4  | 4  | 2  | 3  | 4  | 5  | 79    |
| R211      | 4                | 4  | 4  | 5  | 5  | 5  | 2  | 4  | 4  | 2  | 92    |
| R212      | 3                | 2  | 3  | 5  | 3  | 4  | 2  | 4  | 4  | 4  | 84    |
| R213      | 4                | 3  | 4  | 5  | 4  | 3  | 2  | 4  | 2  | 2  | 93    |
| R214      | 4                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 2  | 4  | 79    |
| R215      | 4                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 4  | 4  | 87    |
| R216      | 3                | 3  | 3  | 2  | 4  | 2  | 3  | 3  | 2  | 2  | 74    |
| R217      | 3                | 1  | 4  | 5  | 5  | 4  | 2  | 4  | 2  | 5  | 94    |
| R218      | 1                | 3  | 4  | 1  | 4  | 2  | 4  | 1  | 1  | 4  | 64    |
| R219      | 5                | 2  | 4  | 4  | 4  | 5  | 1  | 5  | 2  | 2  | 84    |
| R220      | 3                | 1  | 5  | 5  | 3  | 3  | 1  | 3  | 3  | 5  | 79    |
| R221      | 4                | 1  | 4  | 5  | 5  | 4  | 2  | 4  | 3  | 4  | 90    |
| R222      | 5                | 1  | 5  | 4  | 5  | 5  | 1  | 4  | 4  | 1  | 88    |
| R223      | 3                | 2  | 4  | 4  | 4  | 4  | 2  | 3  | 2  | 2  | 75    |
| R224      | 4                | 2  | 4  | 5  | 5  | 5  | 1  | 5  | 5  | 5  | 92    |
| R225      | 5                | 5  | 1  | 1  | 1  | 5  | 5  | 5  | 5  | 5  | 84    |
| R226      | 5                | 1  | 3  | 5  | 1  | 5  | 5  | 1  | 5  | 4  | 87    |
| R227      | 3                | 4  | 3  | 5  | 2  | 4  | 4  | 3  | 3  | 4  | 81    |
| R228      | 5                | 4  | 1  | 5  | 1  | 5  | 4  | 1  | 5  | 5  | 85    |
| R229      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 82    |
| R230      | 4                | 2  | 3  | 5  | 2  | 4  | 3  | 3  | 3  | 4  | 80    |
| R231      | 3                | 1  | 3  | 2  | 2  | 2  | 3  | 3  | 1  | 4  | 68    |
| R232      | 5                | 2  | 2  | 2  | 1  | 4  | 5  | 1  | 4  | 4  | 79    |
| R233      | 3                | 3  | 2  | 5  | 2  | 5  | 4  | 3  | 3  | 5  | 84    |
| R234      | 3                | 4  | 2  | 5  | 2  | 3  | 3  | 2  | 3  | 4  | 75    |



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|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R235      | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 2  | 4  | 4  | 92    |
| R236      | 4                | 4  | 2  | 4  | 2  | 4  | 5  | 3  | 3  | 5  | 85    |
| R237      | 3                | 4  | 5  | 5  | 5  | 4  | 4  | 2  | 4  | 4  | 89    |
| R238      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 75    |
| R239      | 3                | 3  | 3  | 4  | 2  | 4  | 4  | 3  | 3  | 4  | 78    |
| R240      | 5                | 1  | 1  | 4  | 1  | 2  | 3  | 4  | 1  | 4  | 71    |
| R241      | 3                | 4  | 2  | 5  | 2  | 4  | 4  | 2  | 4  | 4  | 82    |
| R242      | 3                | 4  | 2  | 4  | 2  | 4  | 4  | 3  | 2  | 4  | 76    |
| R243      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 3  | 4  | 82    |
| R244      | 2                | 3  | 2  | 5  | 2  | 2  | 3  | 4  | 2  | 2  | 75    |
| R245      | 3                | 5  | 1  | 5  | 1  | 5  | 5  | 3  | 5  | 4  | 89    |
| R246      | 3                | 3  | 2  | 4  | 2  | 4  | 4  | 3  | 4  | 4  | 82    |
| R247      | 3                | 3  | 2  | 4  | 2  | 4  | 4  | 3  | 4  | 4  | 79    |
| R248      | 4                | 3  | 3  | 4  | 2  | 3  | 4  | 3  | 4  | 4  | 81    |
| R249      | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 92    |
| R250      | 2                | 2  | 2  | 4  | 2  | 2  | 4  | 4  | 2  | 4  | 79    |
| R251      | 3                | 5  | 2  | 5  | 1  | 5  | 5  | 1  | 4  | 5  | 79    |
| R252      | 4                | 2  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 77    |
| R253      | 4                | 3  | 1  | 5  | 4  | 5  | 5  | 2  | 4  | 5  | 89    |
| R254      | 4                | 5  | 1  | 5  | 2  | 4  | 3  | 3  | 4  | 4  | 82    |
| R255      | 4                | 5  | 1  | 5  | 1  | 4  | 5  | 1  | 4  | 4  | 83    |
| R256      | 4                | 4  | 1  | 4  | 1  | 4  | 3  | 2  | 4  | 2  | 76    |
| R257      | 5                | 5  | 2  | 5  | 1  | 4  | 4  | 2  | 4  | 5  | 85    |
| R258      | 4                | 5  | 1  | 4  | 2  | 5  | 5  | 2  | 4  | 5  | 84    |
| R259      | 3                | 5  | 2  | 5  | 2  | 4  | 4  | 2  | 4  | 4  | 82    |
| R260      | 2                | 3  | 3  | 5  | 3  | 3  | 3  | 3  | 1  | 1  | 83    |
| R261      | 4                | 4  | 2  | 5  | 2  | 4  | 3  | 3  | 4  | 5  | 88    |
| R262      | 4                | 4  | 1  | 5  | 1  | 4  | 5  | 2  | 5  | 5  | 92    |
| R263      | 5                | 3  | 1  | 3  | 1  | 5  | 5  | 1  | 5  | 5  | 85    |
| R264      | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 2  | 5  | 3  | 90    |
| R265      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 83    |
| R266      | 4                | 4  | 2  | 5  | 2  | 4  | 4  | 2  | 4  | 4  | 84    |
| R267      | 5                | 4  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 81    |
| R268      | 5                | 3  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 85    |
| R269      | 4                | 5  | 2  | 4  | 2  | 5  | 4  | 1  | 4  | 4  | 88    |
| R270      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 3  | 4  | 76    |
| R271      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 79    |
| R272      | 5                | 3  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 82    |
| R273      | 4                | 4  | 2  | 3  | 1  | 5  | 5  | 1  | 5  | 4  | 83    |
| R274      | 3                | 4  | 2  | 3  | 3  | 4  | 4  | 3  | 4  | 3  | 83    |
| R275      | 4                | 3  | 2  | 4  | 2  | 3  | 4  | 2  | 4  | 4  | 79    |
| R276      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 3  | 3  | 77    |
| R277      | 5                | 3  | 1  | 5  | 1  | 5  | 4  | 1  | 5  | 5  | 90    |
| R278      | 3                | 4  | 2  | 4  | 2  | 4  | 4  | 3  | 3  | 3  | 79    |
| R279      | 5                | 4  | 1  | 4  | 2  | 5  | 5  | 1  | 4  | 4  | 86    |
| R280      | 3                | 3  | 3  | 3  | 3  | 4  | 4  | 2  | 3  | 3  | 79    |

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|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R281      | 4                | 4  | 2  | 4  | 5  | 4  | 4  | 3  | 1  | 5  | 82    |
| R282      | 2                | 4  | 2  | 5  | 2  | 5  | 4  | 4  | 2  | 2  | 89    |
| R283      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 84    |
| R284      | 5                | 3  | 2  | 5  | 1  | 5  | 5  | 1  | 4  | 5  | 84    |
| R285      | 2                | 2  | 3  | 4  | 3  | 2  | 4  | 3  | 4  | 4  | 71    |
| R286      | 5                | 1  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 91    |
| R287      | 5                | 3  | 2  | 5  | 2  | 4  | 4  | 2  | 2  | 5  | 85    |
| R288      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 79    |
| R289      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 80    |
| R290      | 4                | 3  | 2  | 4  | 1  | 4  | 3  | 2  | 4  | 4  | 78    |
| R291      | 5                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 5  | 81    |
| R292      | 3                | 4  | 2  | 4  | 2  | 4  | 3  | 2  | 4  | 4  | 82    |
| R293      | 4                | 3  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 79    |
| R294      | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 89    |
| R295      | 3                | 2  | 2  | 4  | 1  | 5  | 4  | 3  | 4  | 4  | 80    |
| R296      | 3                | 3  | 2  | 5  | 2  | 3  | 3  | 2  | 4  | 5  | 79    |
| R297      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 80    |
| R298      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 80    |
| R299      | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 2  | 4  | 4  | 84    |
| R300      | 3                | 3  | 3  | 4  | 2  | 2  | 3  | 3  | 4  | 4  | 80    |
| R301      | 3                | 3  | 2  | 4  | 2  | 4  | 4  | 3  | 3  | 1  | 79    |
| R302      | 5                | 4  | 2  | 5  | 1  | 5  | 5  | 1  | 5  | 4  | 87    |
| R303      | 4                | 3  | 1  | 5  | 1  | 5  | 5  | 2  | 4  | 4  | 77    |
| R304      | 3                | 3  | 2  | 2  | 1  | 5  | 4  | 3  | 4  | 4  | 83    |
| R305      | 2                | 3  | 3  | 2  | 5  | 1  | 2  | 5  | 1  | 4  | 67    |
| R306      | 3                | 5  | 1  | 5  | 1  | 3  | 4  | 3  | 5  | 2  | 81    |
| R307      | 3                | 1  | 2  | 4  | 2  | 2  | 4  | 3  | 3  | 3  | 76    |
| R308      | 3                | 3  | 2  | 4  | 2  | 4  | 4  | 3  | 2  | 4  | 81    |
| R309      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 75    |
| R310      | 4                | 4  | 2  | 4  | 3  | 4  | 3  | 2  | 3  | 4  | 78    |
| R311      | 4                | 4  | 2  | 5  | 2  | 4  | 4  | 2  | 4  | 3  | 82    |
| R312      | 5                | 4  | 1  | 5  | 1  | 5  | 5  | 1  | 4  | 5  | 89    |
| R313      | 5                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 81    |
| R314      | 3                | 4  | 2  | 4  | 2  | 4  | 4  | 3  | 3  | 3  | 78    |
| R315      | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 86    |
| R316      | 3                | 4  | 2  | 5  | 2  | 4  | 4  | 3  | 2  | 5  | 84    |
| R317      | 5                | 3  | 2  | 5  | 3  | 3  | 4  | 2  | 3  | 5  | 83    |
| R318      | 5                | 2  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 88    |
| R319      | 4                | 4  | 2  | 4  | 2  | 5  | 4  | 2  | 4  | 5  | 84    |
| R320      | 5                | 4  | 2  | 4  | 1  | 5  | 4  | 2  | 4  | 4  | 84    |
| R321      | 4                | 4  | 2  | 5  | 1  | 5  | 3  | 2  | 5  | 5  | 90    |
| R322      | 5                | 3  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 80    |
| R323      | 5                | 4  | 2  | 4  | 2  | 5  | 5  | 1  | 4  | 4  | 85    |
| R324      | 4                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 89    |
| R325      | 4                | 3  | 3  | 5  | 1  | 5  | 5  | 1  | 2  | 5  | 81    |
| R326      | 5                | 2  | 2  | 5  | 2  | 4  | 4  | 1  | 4  | 3  | 78    |

| Responden | Nomor Pertanyaan |    |    |    |    |    |    |    |    |    | Nilai |
|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R327      | 4                | 3  | 3  | 5  | 1  | 5  | 4  | 2  | 2  | 5  | 87    |
| R328      | 2                | 3  | 2  | 5  | 3  | 3  | 4  | 3  | 3  | 4  | 77    |
| R329      | 3                | 5  | 2  | 4  | 3  | 3  | 4  | 3  | 1  | 2  | 74    |
| R330      | 4                | 3  | 3  | 4  | 2  | 5  | 5  | 1  | 1  | 5  | 78    |
| R331      | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 82    |
| R332      | 4                | 4  | 2  | 4  | 2  | 3  | 4  | 2  | 4  | 4  | 84    |
| R333      | 3                | 4  | 2  | 4  | 2  | 5  | 4  | 2  | 4  | 4  | 81    |
| R334      | 4                | 3  | 2  | 3  | 3  | 4  | 4  | 3  | 4  | 4  | 82    |
| R335      | 5                | 3  | 2  | 4  | 1  | 5  | 5  | 2  | 5  | 5  | 88    |
| R336      | 5                | 2  | 2  | 1  | 1  | 4  | 4  | 2  | 4  | 4  | 76    |
| R337      | 4                | 4  | 2  | 3  | 2  | 4  | 4  | 2  | 4  | 4  | 78    |
| R338      | 4                | 4  | 1  | 5  | 1  | 5  | 4  | 2  | 5  | 5  | 83    |
| R339      | 3                | 2  | 2  | 5  | 2  | 4  | 3  | 3  | 4  | 1  | 77    |
| R340      | 5                | 3  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 86    |
| R341      | 3                | 1  | 1  | 5  | 2  | 2  | 5  | 2  | 2  | 4  | 82    |
| R342      | 5                | 3  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 90    |
| R343      | 5                | 2  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 85    |
| R344      | 5                | 3  | 3  | 4  | 1  | 4  | 3  | 2  | 5  | 4  | 82    |
| R345      | 4                | 4  | 2  | 2  | 3  | 3  | 4  | 3  | 3  | 3  | 82    |
| R346      | 5                | 3  | 1  | 5  | 1  | 5  | 5  | 1  | 4  | 4  | 88    |
| R347      | 4                | 4  | 2  | 5  | 2  | 4  | 4  | 2  | 4  | 4  | 82    |
| R348      | 3                | 4  | 2  | 5  | 1  | 5  | 5  | 2  | 5  | 5  | 88    |
| R349      | 5                | 3  | 2  | 2  | 1  | 5  | 5  | 1  | 4  | 5  | 83    |
| R350      | 4                | 3  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 80    |
| R351      | 3                | 3  | 1  | 4  | 2  | 4  | 4  | 3  | 3  | 3  | 78    |
| R352      | 3                | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 75    |
| R353      | 4                | 4  | 2  | 4  | 2  | 4  | 5  | 1  | 4  | 5  | 76    |
| R354      | 3                | 4  | 3  | 5  | 2  | 4  | 3  | 3  | 3  | 4  | 78    |
| R355      | 3                | 3  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 73    |
| R356      | 5                | 5  | 1  | 5  | 1  | 5  | 4  | 1  | 5  | 5  | 87    |
| R357      | 3                | 4  | 2  | 5  | 2  | 3  | 3  | 4  | 3  | 3  | 82    |
| R358      | 4                | 3  | 3  | 5  | 1  | 4  | 4  | 2  | 3  | 4  | 81    |
| R359      | 4                | 3  | 2  | 4  | 2  | 3  | 4  | 3  | 4  | 4  | 78    |
| R360      | 4                | 3  | 2  | 5  | 2  | 4  | 4  | 2  | 4  | 5  | 81    |
| R361      | 4                | 3  | 2  | 3  | 2  | 4  | 4  | 2  | 4  | 4  | 81    |
| R362      | 1                | 3  | 2  | 4  | 3  | 3  | 2  | 4  | 1  | 4  | 84    |
| R363      | 5                | 3  | 2  | 2  | 2  | 4  | 5  | 3  | 4  | 2  | 80    |
| R364      | 4                | 2  | 2  | 5  | 3  | 4  | 4  | 3  | 1  | 5  | 80    |

## Lampiran 24

**KISI-KISI KUESIONER KEDISIPLINAN SISWA YANG DIGUNAKAN**

| No. | Dimensi  | Indikator  | Nomor Butir |         | Jumlah |
|-----|--|--|-------------|---------|--------|
|     |  |  | Positif     | Negatif |        |
| 1.  | Ketaatan terhadap tata tertib sekolah            | 1. Kepatuhan siswa terhadap jam KBM berlangsung                        | 1, 2,       | 3       | 3      |
|     |  | 2. Ketaatan dalam menjalankan sanksi pelanggaran tertib                | 4           | 5, 6    | 3      |
|     |  | 3. Ketaatan dalam pemenuhan absensi sekolah                            | 7           | -       | 1      |
| 2.  | Ketaatan dalam mengerjakan tugas-tugas pelajaran | 4. Ketaatan penyelesaian tugas dengan tepat waktu                      | 8, 9        | -       | 2      |
|     |  | 5. Ketaatan dalam menjalankan sanksi pelanggaran tata tertib penugasan | 10          | -       | 1      |
|     |  | 6. Kejujuran dalam menyelesaikan tugas secara individu                 | 11, 12      | -       | 2      |
| 3.  | Disiplin terhadap kegiatan belajar di sekolah    | 7. Kesadaran beretika yang baik di dalam sekolah                       | 13, 14      | -       | 2      |
|     |  | 8. Kesadaran dalam mengikuti KBM secara tertib                         | 15, 16      | 17      | 3      |
|     |  | 9. Keterampilan dalam menyimak pembelajaran                            | 18, 19      |         | 2      |
| 4.  | Disiplin terhadap kegiatan belajar di rumah      | 10. Konsisten melakukan refleksi dari pembelajaran sebelumnya          | 20, 21      | -       | 2      |
|     |  | 11. Ketaatan menyelesaikan tugas rumah dengan baik                     | 22          | 23      | 2      |

| No.          | Dimensi | Indikator  | Nomor Butir |         | Jumlah    |
|--------------|---------|--|-------------|---------|-----------|
|              |         |  | Positif     | Negatif |           |
|              |         | 12. Terampil dalam menyelesaikan tugas rumah secara variatif | 24,25       | -       | 2         |
| <b>Total</b> |         |  |             |         | <b>25</b> |

Berikut merupakan pedoman penskoran untuk kuesioner kedisiplinan siswa yang akan diujicobakan dalam penelitian ini.

#### **RUBRIK PENSKORAN KUESIONER KONDISI EKONOMI KELUARGA**

| Pilihan Jawaban    | Skor               |                    |
|--------------------|--------------------|--------------------|
|                    | Pernyataan Positif | Pernyataan Negatif |
| Selalu (SL)        | 5                  | 1                  |
| Sering (S)         | 4                  | 2                  |
| Kadang-kadang (KK) | 3                  | 3                  |
| Jarang (J)         | 2                  | 4                  |
| Tidak Pernah (TP)  | 1                  | 5                  |

## Lampiran 25

### KUESIONER KEDISIPLINAN SISWA YANG DIGUNAKAN

#### A. Petunjuk Pengisian:

1. Kuesioner ini terdiri dari 30 pertanyaan tentang kedisiplinan siswa.
2. Bacalah pernyataan dengan cermat, kemudian jawablah sesuai dengan keadaan anda yang sebenarnya dengan cara memberi tanda ceklis (✓) pada salah satu kolom jawaban.
3. Kategori yang digunakan untuk menjawab adalah;
  - SL = Selalu
  - S = Sering
  - K = Kadang-kadang
  - J = Jarang
  - TP = Tidak Pernah
4. Tidak ada jawaban yang benar atau salah, tidak ada pengaruh terhadap penilaian yang dilakukan di sekolah, dan akan di rahasiakan.
5. Sebelum anda menyerahkan lembaran ini, periksalah kembali dengan seksama agar tidak ada pernyataan yang terlewat.

#### B. Daftar Pertanyaan

| NO. | Pernyataan   | SS | S | R | TS | STS |
|-----|--|----|---|---|----|-----|
| 1.  | Saya sampai di Sekolah sebelum bel berbunyi            |    |   |   |    |     |
| 2.  | Saya masuk kelas tepat waktu                           |    |   |   |    |     |
| 3.  | Saya tidak pernah bolos pada saat jam pelajaran fisika |    |   |   |    |     |
| 4.  | Saya membantah ketika dinasehati oleh guru             |    |   |   |    |     |



| NO. | Pernyataan  | SS | S | R | TS | STS |
|-----|---|----|---|---|----|-----|
| 5.  | Saya mengulangi kesalahan meskipun sudah diberikan surat peringatan                                       |    |   |   |    |     |
| 6.  | Saya tidak melakukan kegiatan yang melanggar tata tertib ketika pelajaran berlangsung                     |    |   |   |    |     |
| 7.  | Saya tidak pernah keluar dari kelas tanpa alasan meskipun guru tidak dapat mengisi jam pelajaran di kelas |    |   |   |    |     |
| 8.  | Saya tidak langsung mengerjakan tugas ketika guru memberikan tugas di kelas                               |    |   |   |    |     |
| 9.  | Saya mengumpulkan PR tepat pada hari pengumpulan tugas  |    |   |   |    |     |
| 10. | Saya tidak pernah meminta penambahan waktu untuk mengerjakan tugas demi kepentingan pribadi               |    |   |   |    |     |
| 11. | Saya mengabaikan hukuman meskipun saya terbukti tidak mematuhi aturan dalam melaksanakan tugas            |    |   |   |    |     |
| 12. | Saya melihat jawaban teman ketika diberi tugas  |    |   |   |    |     |
| 13. | Saya mengucapkan salam ketika masuk kelas   |    |   |   |    |     |

| NO. | Pernyataan  | SS | S | R | TS | STS |
|-----|---|----|---|---|----|-----|
| 14. | Saya berdoa sebelum pelajaran dimulai   |    |   |   |    |     |
| 15. | Saya memperhatikan penjelasan guru dengan baik ketika kegiatan belajar mengajar berlangsung   |    |   |   |    |     |
| 16. | Saya sibuk mengerjakan PR diluar mata pelajaran yang sedang diajarkan sehingga tidak mendengarkan penjelasan dari guru ketika kegiatan belajar mengajar berlangsung |    |   |   |    |     |
| 17. | Saya menyimak dan mendengarkan materi pelajaran dengan sungguh-sungguh  |    |   |   |    |     |
| 18. | Saya menggaris bawahi point-point materi ketika kegiatan belajar mengajar berlangsung   |    |   |   |    |     |
| 19. | Saya melakukan dokumentasi point-point materi di papan tulis menggunakan smartphone saya  |    |   |   |    |     |
| 20. | Saya mempelajari kembali materi yang sudah dijelaskan oleh guru   |    |   |   |    |     |
| 21. | Saya membuat peta konsep untuk materi yang sudah diajarkan agar lebih mudah dipahami  |    |   |   |    |     |
| 22. | Saya segera mengerjakan pekerjaan rumah sebelum batas waktu pengumpulan.  |    |   |   |    |     |

| NO. | Pernyataan  | SS | S | R | TS | STS |
|-----|---|----|---|---|----|-----|
| 23. | Saya bergantung kepada teman saat mengerjakan tugas rumah.  |    |   |   |    |     |
| 24. | Saya membuat list kegiatan harian supaya lebih produktif  |    |   |   |    |     |
| 25. | Saya menggunakan media pembelajaran (Youtube) selain buku untuk meningkatkan kemampuan pemahaman saya |    |   |   |    |     |



## Lampiran 26

**DATA KEDISIPLINAN SISWA KELAS XI MIPA SMA  
NEGERI DIKOTA SINGARAJA**

| Responden | Nomor Pertanyaan |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R1        | 5                | 5 | 5 | 4 | 4 | 1 | 4 | 5 | 4 | 3  | 4  | 5  | 3  | 3  | 3  |
| R2        | 5                | 5 | 5 | 5 | 4 | 3 | 3 | 5 | 4 | 3  | 4  | 5  | 2  | 2  | 2  |
| R3        | 4                | 5 | 5 | 4 | 3 | 4 | 4 | 4 | 4 | 4  | 4  | 4  | 3  | 2  | 3  |
| R4        | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 4  | 4  | 4  | 3  | 3  | 2  |
| R5        | 4                | 4 | 5 | 2 | 3 | 3 | 4 | 5 | 4 | 3  | 5  | 4  | 3  | 4  | 2  |
| R6        | 5                | 5 | 5 | 2 | 3 | 1 | 4 | 4 | 4 | 2  | 3  | 4  | 3  | 3  | 4  |
| R7        | 5                | 5 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 3  | 4  | 4  | 3  | 4  | 3  |
| R8        | 5                | 5 | 4 | 5 | 3 | 4 | 5 | 4 | 5 | 4  | 5  | 5  | 1  | 3  | 4  |
| R9        | 5                | 5 | 4 | 4 | 4 | 3 | 4 | 4 | 5 | 4  | 4  | 5  | 2  | 2  | 3  |
| R10       | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3  | 4  | 4  | 2  | 2  | 2  |
| R11       | 5                | 5 | 5 | 4 | 4 | 3 | 4 | 4 | 5 | 4  | 5  | 4  | 1  | 2  | 3  |
| R12       | 5                | 4 | 5 | 5 | 5 | 4 | 5 | 4 | 4 | 3  | 4  | 5  | 2  | 2  | 3  |
| R13       | 5                | 5 | 5 | 5 | 5 | 4 | 5 | 4 | 4 | 5  | 5  | 5  | 2  | 2  | 3  |
| R14       | 5                | 5 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 2  | 3  |
| R15       | 4                | 5 | 5 | 3 | 4 | 3 | 2 | 5 | 2 | 2  | 2  | 2  | 4  | 2  | 2  |
| R16       | 5                | 5 | 5 | 5 | 5 | 5 | 2 | 4 | 5 | 4  | 4  | 4  | 2  | 2  | 3  |
| R17       | 5                | 5 | 3 | 4 | 5 | 3 | 1 | 4 | 5 | 4  | 3  | 4  | 5  | 4  | 1  |
| R18       | 5                | 5 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 3  | 4  | 4  | 3  | 2  | 3  |
| R19       | 4                | 5 | 1 | 1 | 4 | 3 | 2 | 5 | 3 | 3  | 5  | 5  | 2  | 2  | 3  |
| R20       | 5                | 5 | 5 | 4 | 3 | 3 | 5 | 5 | 5 | 4  | 4  | 4  | 3  | 3  | 3  |
| R21       | 5                | 5 | 5 | 3 | 3 | 3 | 3 | 4 | 4 | 4  | 4  | 4  | 2  | 2  | 5  |
| R22       | 5                | 5 | 5 | 3 | 3 | 3 | 5 | 4 | 5 | 5  | 5  | 5  | 2  | 3  | 2  |
| R23       | 5                | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 3  | 3  |
| R24       | 4                | 4 | 5 | 4 | 3 | 4 | 4 | 4 | 4 | 3  | 4  | 4  | 2  | 3  | 4  |
| R25       | 5                | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 4 | 3  | 4  | 5  | 2  | 5  | 3  |
| R26       | 4                | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 4  | 5  | 5  | 2  | 3  | 2  |
| R27       | 4                | 4 | 4 | 4 | 3 | 3 | 4 | 5 | 4 | 4  | 4  | 5  | 3  | 3  | 1  |
| R28       | 5                | 5 | 5 | 4 | 3 | 3 | 4 | 4 | 5 | 2  | 5  | 5  | 3  | 3  | 4  |
| R29       | 5                | 5 | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 5  | 5  | 4  | 2  | 3  | 3  |
| R30       | 5                | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 5 | 5  | 5  | 4  | 1  | 1  | 1  |
| R31       | 5                | 5 | 5 | 4 | 4 | 3 | 4 | 4 | 5 | 5  | 5  | 5  | 3  | 3  | 2  |
| R32       | 5                | 4 | 5 | 4 | 3 | 3 | 3 | 4 | 4 | 4  | 4  | 4  | 2  | 2  | 2  |
| R33       | 5                | 5 | 3 | 5 | 2 | 2 | 3 | 4 | 1 | 4  | 1  | 5  | 2  | 1  | 1  |
| R34       | 5                | 5 | 4 | 5 | 4 | 3 | 4 | 4 | 4 | 5  | 5  | 4  | 3  | 3  | 2  |
| R35       | 5                | 5 | 4 | 4 | 4 | 3 | 2 | 5 | 5 | 2  | 2  | 4  | 4  | 3  | 1  |
| R36       | 5                | 5 | 4 | 4 | 5 | 3 | 3 | 4 | 4 | 3  | 4  | 4  | 2  | 3  | 3  |
| R37       | 4                | 4 | 5 | 5 | 5 | 5 | 5 | 4 | 3 | 4  | 5  | 4  | 5  | 4  | 1  |
| R38       | 5                | 5 | 5 | 4 | 4 | 3 | 4 | 4 | 3 | 2  | 3  | 4  | 3  | 4  | 3  |
| R39       | 5                | 5 | 5 | 1 | 1 | 1 | 1 | 4 | 4 | 3  | 4  | 4  | 3  | 5  | 3  |
| R40       | 5                | 5 | 4 | 2 | 1 | 3 | 1 | 5 | 5 | 4  | 5  | 5  | 2  | 4  | 2  |

| Responden | Nomor Pertanyaan |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R41       | 5                | 5 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 4  | 3  | 4  | 3  | 3  | 2  |
| R42       | 5                | 5 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 4  | 5  | 5  | 2  | 3  | 3  |
| R43       | 5                | 5 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 5  | 3  | 4  | 3  | 3  | 1  |
| R44       | 5                | 5 | 4 | 4 | 4 | 1 | 5 | 4 | 4 | 3  | 5  | 3  | 3  | 3  | 4  |
| R45       | 5                | 5 | 5 | 5 | 1 | 3 | 1 | 4 | 4 | 3  | 4  | 1  | 2  | 3  | 2  |
| R46       | 3                | 4 | 4 | 5 | 5 | 4 | 5 | 3 | 4 | 3  | 3  | 4  | 2  | 3  | 4  |
| R47       | 5                | 4 | 2 | 4 | 3 | 3 | 3 | 4 | 4 | 5  | 4  | 5  | 1  | 1  | 3  |
| R48       | 5                | 4 | 5 | 4 | 5 | 4 | 5 | 5 | 4 | 3  | 4  | 5  | 2  | 3  | 1  |
| R49       | 5                | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 4 | 4  | 4  | 5  | 2  | 3  | 2  |
| R50       | 5                | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 4 | 2  | 2  | 4  | 2  | 4  | 2  |
| R51       | 5                | 5 | 5 | 5 | 5 | 4 | 5 | 4 | 5 | 4  | 5  | 4  | 3  | 3  | 3  |
| R52       | 1                | 3 | 4 | 3 | 5 | 4 | 5 | 5 | 5 | 5  | 4  | 2  | 3  | 2  | 3  |
| R53       | 5                | 5 | 4 | 4 | 4 | 3 | 5 | 4 | 4 | 2  | 5  | 4  | 4  | 1  | 3  |
| R54       | 2                | 5 | 5 | 5 | 3 | 3 | 5 | 4 | 4 | 4  | 4  | 4  | 2  | 2  | 4  |
| R55       | 5                | 5 | 5 | 4 | 4 | 4 | 5 | 4 | 4 | 3  | 4  | 5  | 3  | 3  | 1  |
| R56       | 5                | 5 | 4 | 4 | 4 | 3 | 2 | 5 | 5 | 2  | 2  | 3  | 4  | 4  | 1  |
| R57       | 4                | 4 | 4 | 4 | 4 | 3 | 5 | 4 | 4 | 3  | 4  | 3  | 3  | 3  | 3  |
| R58       | 5                | 5 | 5 | 4 | 3 | 3 | 5 | 5 | 5 | 3  | 4  | 5  | 3  | 5  | 4  |
| R59       | 5                | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  | 5  | 4  | 2  | 4  | 3  |
| R60       | 5                | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 3  | 4  | 5  | 2  | 3  | 2  |
| R61       | 5                | 5 | 5 | 4 | 4 | 3 | 4 | 4 | 5 | 3  | 5  | 4  | 4  | 4  | 4  |
| R62       | 5                | 5 | 5 | 4 | 5 | 5 | 5 | 4 | 5 | 4  | 4  | 4  | 2  | 1  | 1  |
| R63       | 5                | 5 | 5 | 5 | 4 | 3 | 4 | 3 | 4 | 4  | 3  | 4  | 2  | 3  | 1  |
| R64       | 5                | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3  | 4  | 4  | 3  | 3  | 3  |
| R65       | 5                | 5 | 5 | 5 | 1 | 5 | 5 | 5 | 5 | 5  | 5  | 5  | 5  | 1  | 5  |
| R66       | 5                | 5 | 4 | 5 | 4 | 4 | 4 | 4 | 3 | 3  | 4  | 4  | 3  | 3  | 2  |
| R67       | 5                | 5 | 5 | 5 | 5 | 1 | 1 | 5 | 4 | 3  | 4  | 5  | 1  | 2  | 3  |
| R68       | 5                | 5 | 5 | 3 | 3 | 2 | 3 | 3 | 4 | 3  | 4  | 3  | 3  | 3  | 3  |
| R69       | 5                | 5 | 5 | 5 | 5 | 3 | 5 | 5 | 3 | 4  | 4  | 5  | 3  | 3  | 3  |
| R70       | 5                | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 3  | 4  | 4  | 2  | 3  | 2  |
| R71       | 5                | 5 | 5 | 4 | 5 | 4 | 5 | 4 | 4 | 3  | 4  | 4  | 3  | 4  | 3  |
| R72       | 5                | 5 | 3 | 5 | 3 | 5 | 3 | 5 | 3 | 4  | 3  | 5  | 2  | 3  | 2  |
| R73       | 5                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 2  | 2  | 3  |
| R74       | 4                | 5 | 2 | 5 | 4 | 4 | 4 | 4 | 2 | 4  | 4  | 4  | 2  | 2  | 2  |
| R75       | 5                | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 4  | 4  | 5  | 1  | 2  | 1  |
| R76       | 5                | 5 | 5 | 5 | 5 | 2 | 4 | 4 | 4 | 3  | 4  | 4  | 3  | 3  | 3  |
| R77       | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5  | 4  | 4  | 2  | 2  | 2  |
| R78       | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  | 5  | 5  | 1  | 1  | 1  |
| R79       | 4                | 4 | 5 | 4 | 3 | 5 | 4 | 3 | 4 | 2  | 4  | 4  | 4  | 4  | 4  |
| R80       | 5                | 5 | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 3  | 4  | 4  | 3  | 4  | 3  |
| R81       | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4  | 4  | 4  | 2  | 2  | 2  |
| R82       | 5                | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 4  | 4  | 4  | 2  | 3  | 2  |
| R83       | 5                | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 4 | 4  | 4  | 4  | 2  | 3  | 3  |
| R84       | 5                | 5 | 5 | 5 | 4 | 5 | 4 | 4 | 5 | 3  | 5  | 4  | 3  | 4  | 3  |
| R85       | 5                | 5 | 5 | 4 | 4 | 3 | 5 | 5 | 5 | 4  | 5  | 5  | 3  | 3  | 2  |
| R86       | 5                | 5 | 5 | 5 | 4 | 3 | 5 | 3 | 4 | 5  | 3  | 3  | 1  | 1  | 2  |

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|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R87       | 5                | 5 | 2 | 1 | 5 | 3 | 1 | 5 | 5 | 1  | 1  | 4  | 5  | 2  | 1  |
| R88       | 4                | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 2  | 3  | 4  | 3  | 3  | 3  |
| R89       | 5                | 5 | 4 | 4 | 3 | 3 | 5 | 5 | 5 | 5  | 5  | 5  | 3  | 3  | 1  |
| R90       | 5                | 5 | 5 | 2 | 4 | 3 | 5 | 4 | 5 | 4  | 4  | 4  | 3  | 3  | 2  |
| R91       | 5                | 5 | 5 | 5 | 3 | 3 | 5 | 5 | 5 | 5  | 5  | 4  | 3  | 2  | 2  |
| R92       | 5                | 4 | 1 | 1 | 3 | 3 | 1 | 4 | 4 | 4  | 4  | 4  | 3  | 3  | 2  |
| R93       | 5                | 5 | 5 | 5 | 5 | 4 | 3 | 5 | 5 | 4  | 5  | 4  | 3  | 3  | 4  |
| R94       | 5                | 5 | 4 | 5 | 4 | 3 | 5 | 5 | 4 | 5  | 4  | 4  | 1  | 3  | 2  |
| R95       | 5                | 5 | 5 | 4 | 4 | 4 | 4 | 3 | 4 | 4  | 4  | 4  | 3  | 3  | 3  |
| R96       | 5                | 5 | 5 | 5 | 4 | 2 | 4 | 5 | 4 | 4  | 5  | 5  | 3  | 3  | 2  |
| R97       | 5                | 5 | 5 | 5 | 5 | 1 | 3 | 5 | 5 | 2  | 5  | 5  | 1  | 1  | 3  |
| R98       | 5                | 5 | 5 | 4 | 4 | 4 | 5 | 4 | 5 | 5  | 5  | 4  | 3  | 3  | 2  |
| R99       | 5                | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3  | 4  | 4  | 2  | 3  | 2  |
| R100      | 1                | 1 | 1 | 2 | 3 | 2 | 3 | 4 | 4 | 5  | 5  | 3  | 4  | 4  | 2  |
| R101      | 5                | 5 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 2  | 5  | 4  | 3  | 4  | 3  |
| R102      | 5                | 5 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 3  | 3  | 3  | 3  | 4  | 4  |
| R103      | 5                | 5 | 3 | 3 | 3 | 3 | 5 | 3 | 4 | 4  | 4  | 4  | 3  | 4  | 3  |
| R104      | 5                | 5 | 5 | 4 | 4 | 3 | 5 | 4 | 4 | 2  | 5  | 5  | 2  | 3  | 4  |
| R105      | 5                | 5 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 3  | 4  | 4  | 2  | 1  | 3  |
| R106      | 5                | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4  | 4  | 4  | 3  | 2  | 3  |
| R107      | 5                | 5 | 3 | 1 | 1 | 2 | 5 | 5 | 5 | 3  | 5  | 5  | 3  | 3  | 2  |
| R108      | 5                | 5 | 5 | 3 | 4 | 2 | 5 | 5 | 5 | 4  | 5  | 3  | 2  | 2  | 1  |
| R109      | 5                | 5 | 5 | 3 | 5 | 5 | 5 | 3 | 5 | 4  | 3  | 5  | 1  | 2  | 3  |
| R110      | 5                | 5 | 4 | 5 | 4 | 3 | 3 | 4 | 5 | 5  | 5  | 5  | 3  | 2  | 2  |
| R111      | 5                | 3 | 3 | 5 | 5 | 5 | 4 | 4 | 4 | 4  | 3  | 4  | 2  | 3  | 3  |
| R112      | 5                | 5 | 5 | 5 | 4 | 4 | 5 | 4 | 5 | 4  | 5  | 2  | 3  | 3  | 4  |
| R113      | 5                | 2 | 1 | 2 | 2 | 4 | 3 | 1 | 5 | 5  | 5  | 2  | 2  | 2  | 2  |
| R114      | 3                | 2 | 4 | 4 | 2 | 2 | 4 | 5 | 5 | 2  | 5  | 5  | 5  | 5  | 2  |
| R115      | 2                | 2 | 3 | 2 | 4 | 5 | 1 | 1 | 4 | 5  | 2  | 3  | 5  | 3  | 2  |
| R116      | 5                | 3 | 2 | 4 | 1 | 5 | 1 | 2 | 5 | 5  | 1  | 3  | 1  | 2  | 3  |
| R117      | 2                | 4 | 5 | 4 | 5 | 3 | 3 | 2 | 4 | 2  | 1  | 3  | 1  | 1  | 3  |
| R118      | 3                | 3 | 2 | 1 | 3 | 1 | 2 | 4 | 4 | 1  | 1  | 2  | 2  | 3  | 3  |
| R119      | 5                | 4 | 5 | 5 | 4 | 3 | 2 | 2 | 5 | 3  | 2  | 5  | 4  | 4  | 4  |
| R120      | 5                | 5 | 3 | 5 | 1 | 4 | 4 | 1 | 3 | 5  | 2  | 2  | 4  | 2  | 5  |
| R121      | 2                | 2 | 1 | 2 | 1 | 5 | 4 | 4 | 3 | 1  | 2  | 5  | 4  | 1  | 5  |
| R122      | 3                | 5 | 1 | 5 | 3 | 3 | 2 | 2 | 1 | 3  | 5  | 2  | 4  | 2  | 5  |
| R123      | 3                | 5 | 1 | 5 | 2 | 2 | 2 | 3 | 1 | 2  | 1  | 1  | 2  | 1  | 1  |
| R124      | 1                | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 5 | 4  | 2  | 3  | 3  | 3  | 1  |
| R125      | 5                | 3 | 1 | 1 | 2 | 2 | 2 | 3 | 1 | 1  | 3  | 2  | 5  | 4  | 4  |
| R126      | 2                | 3 | 3 | 4 | 3 | 1 | 5 | 2 | 3 | 4  | 1  | 2  | 2  | 3  | 4  |
| R127      | 3                | 4 | 3 | 3 | 4 | 1 | 4 | 3 | 4 | 4  | 5  | 2  | 4  | 3  | 4  |
| R128      | 3                | 5 | 3 | 1 | 4 | 1 | 5 | 3 | 4 | 5  | 4  | 3  | 4  | 2  | 4  |
| R129      | 3                | 4 | 2 | 2 | 3 | 2 | 3 | 2 | 5 | 5  | 4  | 3  | 4  | 1  | 5  |
| R130      | 4                | 3 | 1 | 3 | 4 | 1 | 3 | 2 | 4 | 5  | 4  | 1  | 5  | 5  | 5  |
| R131      | 3                | 3 | 2 | 3 | 4 | 1 | 3 | 2 | 4 | 5  | 5  | 3  | 4  | 2  | 4  |
| R132      | 5                | 4 | 3 | 2 | 3 | 1 | 3 | 3 | 5 | 5  | 4  | 3  | 4  | 2  | 5  |



| Responden | Nomor Pertanyaan |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R133      | 3                | 4 | 1 | 2 | 4 | 1 | 4 | 2 | 5 | 4  | 5  | 2  | 4  | 3  | 5  |
| R134      | 4                | 4 | 1 | 2 | 4 | 1 | 5 | 3 | 4 | 4  | 5  | 1  | 5  | 5  | 5  |
| R135      | 3                | 4 | 1 | 2 | 3 | 1 | 4 | 1 | 4 | 4  | 4  | 2  | 4  | 1  | 4  |
| R136      | 4                | 3 | 1 | 2 | 3 | 1 | 4 | 3 | 4 | 5  | 5  | 1  | 4  | 3  | 5  |
| R137      | 5                | 3 | 1 | 2 | 4 | 1 | 3 | 1 | 4 | 4  | 4  | 3  | 4  | 2  | 4  |
| R138      | 4                | 3 | 1 | 3 | 3 | 1 | 4 | 1 | 4 | 5  | 5  | 1  | 4  | 2  | 5  |
| R139      | 4                | 3 | 2 | 2 | 4 | 2 | 5 | 2 | 5 | 5  | 4  | 2  | 5  | 3  | 4  |
| R140      | 3                | 5 | 1 | 3 | 5 | 1 | 3 | 3 | 5 | 4  | 5  | 1  | 5  | 1  | 5  |
| R141      | 5                | 5 | 1 | 1 | 4 | 1 | 4 | 2 | 4 | 4  | 5  | 2  | 4  | 1  | 4  |
| R142      | 5                | 4 | 1 | 2 | 4 | 2 | 3 | 2 | 4 | 4  | 4  | 3  | 5  | 1  | 5  |
| R143      | 3                | 5 | 3 | 1 | 3 | 1 | 3 | 1 | 4 | 4  | 4  | 1  | 4  | 5  | 5  |
| R144      | 5                | 5 | 2 | 2 | 4 | 1 | 4 | 2 | 5 | 4  | 5  | 3  | 5  | 1  | 5  |
| R145      | 4                | 4 | 2 | 2 | 5 | 1 | 5 | 3 | 4 | 4  | 5  | 2  | 5  | 3  | 5  |
| R146      | 5                | 4 | 2 | 3 | 3 | 1 | 5 | 1 | 4 | 4  | 4  | 2  | 4  | 1  | 4  |
| R147      | 5                | 4 | 2 | 3 | 3 | 1 | 4 | 2 | 4 | 4  | 5  | 3  | 5  | 5  | 5  |
| R148      | 5                | 5 | 3 | 3 | 4 | 2 | 3 | 2 | 5 | 4  | 4  | 3  | 4  | 2  | 5  |
| R149      | 4                | 4 | 1 | 3 | 5 | 2 | 5 | 1 | 5 | 5  | 4  | 1  | 5  | 2  | 5  |
| R150      | 3                | 3 | 2 | 1 | 3 | 2 | 3 | 3 | 4 | 4  | 5  | 2  | 5  | 3  | 5  |
| R151      | 5                | 4 | 3 | 2 | 5 | 2 | 5 | 1 | 5 | 5  | 4  | 3  | 5  | 3  | 4  |
| R152      | 4                | 5 | 2 | 1 | 3 | 2 | 3 | 3 | 5 | 5  | 5  | 2  | 4  | 2  | 4  |
| R153      | 3                | 4 | 3 | 1 | 3 | 2 | 4 | 3 | 4 | 5  | 5  | 2  | 5  | 1  | 4  |
| R154      | 5                | 5 | 2 | 3 | 4 | 1 | 4 | 3 | 5 | 4  | 5  | 2  | 4  | 2  | 4  |
| R155      | 5                | 3 | 1 | 3 | 5 | 1 | 3 | 1 | 4 | 5  | 4  | 1  | 4  | 2  | 5  |
| R156      | 5                | 5 | 2 | 1 | 5 | 2 | 4 | 2 | 5 | 4  | 4  | 3  | 5  | 2  | 5  |
| R157      | 3                | 3 | 3 | 3 | 3 | 2 | 5 | 3 | 5 | 5  | 4  | 3  | 4  | 3  | 4  |
| R158      | 4                | 3 | 2 | 2 | 3 | 1 | 5 | 3 | 5 | 4  | 4  | 1  | 4  | 1  | 5  |
| R159      | 3                | 3 | 2 | 1 | 3 | 1 | 3 | 1 | 4 | 4  | 5  | 1  | 5  | 2  | 5  |
| R160      | 3                | 5 | 3 | 2 | 4 | 1 | 4 | 3 | 4 | 5  | 5  | 3  | 5  | 3  | 4  |
| R161      | 4                | 3 | 1 | 2 | 4 | 2 | 5 | 1 | 5 | 5  | 5  | 2  | 4  | 3  | 5  |
| R162      | 5                | 5 | 3 | 3 | 5 | 1 | 3 | 1 | 5 | 4  | 5  | 2  | 4  | 3  | 5  |
| R163      | 3                | 5 | 3 | 3 | 3 | 2 | 4 | 3 | 5 | 4  | 5  | 2  | 5  | 3  | 5  |
| R164      | 5                | 4 | 1 | 3 | 4 | 2 | 5 | 2 | 5 | 5  | 4  | 1  | 5  | 1  | 4  |
| R165      | 3                | 3 | 2 | 1 | 5 | 1 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 1  | 5  |
| R166      | 5                | 4 | 1 | 2 | 4 | 2 | 4 | 1 | 5 | 5  | 5  | 1  | 5  | 3  | 4  |
| R167      | 3                | 4 | 2 | 3 | 3 | 1 | 4 | 2 | 4 | 5  | 5  | 2  | 5  | 3  | 5  |
| R168      | 4                | 4 | 3 | 3 | 3 | 2 | 3 | 2 | 4 | 5  | 5  | 3  | 5  | 1  | 5  |
| R169      | 3                | 4 | 3 | 2 | 3 | 2 | 5 | 2 | 4 | 5  | 4  | 3  | 5  | 3  | 4  |
| R170      | 3                | 5 | 3 | 1 | 3 | 2 | 3 | 2 | 4 | 5  | 5  | 2  | 5  | 1  | 5  |
| R171      | 3                | 4 | 2 | 1 | 5 | 2 | 3 | 2 | 4 | 4  | 4  | 3  | 4  | 2  | 5  |
| R172      | 5                | 3 | 2 | 1 | 3 | 1 | 3 | 1 | 5 | 5  | 4  | 1  | 5  | 3  | 4  |
| R173      | 5                | 4 | 2 | 2 | 5 | 2 | 5 | 1 | 5 | 4  | 1  | 2  | 5  | 3  | 4  |
| R174      | 4                | 4 | 2 | 2 | 3 | 1 | 3 | 3 | 5 | 5  | 5  | 2  | 5  | 2  | 5  |
| R175      | 5                | 3 | 2 | 1 | 5 | 1 | 3 | 1 | 5 | 4  | 5  | 2  | 5  | 1  | 4  |
| R176      | 5                | 5 | 2 | 1 | 5 | 2 | 4 | 2 | 5 | 5  | 5  | 2  | 5  | 2  | 5  |
| R177      | 4                | 4 | 2 | 1 | 3 | 1 | 5 | 3 | 5 | 4  | 4  | 1  | 5  | 2  | 4  |
| R178      | 4                | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 5 | 5  | 5  | 1  | 5  | 3  | 4  |
| R179      | 3                | 5 | 1 | 1 | 5 | 2 | 3 | 3 | 4 | 4  | 4  | 2  | 4  | 2  | 5  |
| R180      | 5                | 5 | 3 | 2 | 4 | 1 | 4 | 3 | 5 | 4  | 4  | 1  | 4  | 1  | 4  |
| R181      | 3                | 3 | 3 | 1 | 4 | 1 | 3 | 2 | 5 | 5  | 5  | 2  | 5  | 1  | 5  |
| R182      | 5                | 5 | 2 | 3 | 4 | 1 | 4 | 1 | 4 | 5  | 5  | 1  | 4  | 1  | 4  |

| Responden | Nomor Pertanyaan |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
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|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R183      | 5                | 5 | 1 | 1 | 4 | 2 | 5 | 2 | 4 | 4  | 4  | 2  | 4  | 2  | 3  |
| R184      | 4                | 4 | 2 | 2 | 4 | 3 | 4 | 2 | 4 | 4  | 4  | 3  | 4  | 2  | 4  |
| R185      | 5                | 5 | 1 | 1 | 5 | 3 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 1  | 5  |
| R186      | 5                | 5 | 1 | 1 | 5 | 3 | 5 | 1 | 5 | 5  | 5  | 1  | 4  | 1  | 5  |
| R187      | 5                | 5 | 1 | 1 | 5 | 1 | 5 | 1 | 5 | 5  | 5  | 1  | 4  | 2  | 3  |
| R188      | 5                | 5 | 2 | 2 | 3 | 4 | 3 | 2 | 4 | 3  | 2  | 1  | 2  | 3  | 4  |
| R189      | 5                | 5 | 1 | 1 | 4 | 3 | 3 | 1 | 5 | 4  | 5  | 1  | 5  | 3  | 3  |
| R190      | 5                | 5 | 3 | 1 | 3 | 1 | 3 | 3 | 5 | 5  | 5  | 3  | 2  | 5  | 3  |
| R191      | 4                | 4 | 5 | 1 | 5 | 1 | 5 | 1 | 5 | 4  | 5  | 1  | 5  | 1  | 5  |
| R192      | 5                | 5 | 1 | 2 | 3 | 2 | 4 | 1 | 5 | 4  | 5  | 1  | 4  | 3  | 3  |
| R193      | 5                | 5 | 1 | 1 | 5 | 1 | 5 | 1 | 5 | 5  | 5  | 1  | 4  | 4  | 5  |
| R194      | 4                | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 4  | 4  | 2  | 4  | 2  | 4  |
| R195      | 4                | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 4  | 4  | 2  | 3  | 3  | 4  |
| R196      | 5                | 5 | 1 | 3 | 5 | 3 | 5 | 3 | 3 | 3  | 3  | 3  | 3  | 2  | 3  |
| R197      | 5                | 5 | 1 | 1 | 5 | 3 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 1  | 5  |
| R198      | 4                | 4 | 2 | 2 | 4 | 4 | 4 | 2 | 4 | 4  | 4  | 2  | 4  | 4  | 4  |
| R199      | 5                | 5 | 1 | 1 | 5 | 4 | 5 | 1 | 5 | 4  | 5  | 1  | 3  | 4  | 4  |
| R200      | 4                | 4 | 2 | 2 | 4 | 3 | 4 | 2 | 4 | 4  | 4  | 2  | 3  | 3  | 3  |
| R201      | 4                | 4 | 2 | 2 | 4 | 3 | 4 | 2 | 4 | 4  | 4  | 2  | 5  | 5  | 5  |
| R202      | 5                | 5 | 1 | 2 | 3 | 4 | 4 | 2 | 4 | 4  | 4  | 2  | 4  | 3  | 5  |
| R203      | 4                | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 4  | 4  | 2  | 4  | 2  | 4  |
| R204      | 4                | 4 | 2 | 2 | 3 | 4 | 4 | 2 | 4 | 4  | 4  | 2  | 4  | 3  | 4  |
| R205      | 4                | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 4  | 4  | 2  | 4  | 2  | 4  |
| R206      | 5                | 5 | 1 | 1 | 5 | 2 | 5 | 1 | 4 | 5  | 5  | 2  | 4  | 2  | 4  |
| R207      | 4                | 4 | 1 | 2 | 5 | 2 | 5 | 2 | 2 | 4  | 1  | 2  | 3  | 3  | 4  |
| R208      | 5                | 5 | 1 | 1 | 5 | 3 | 4 | 2 | 5 | 4  | 5  | 2  | 3  | 3  | 5  |
| R209      | 4                | 4 | 2 | 3 | 4 | 5 | 4 | 2 | 5 | 5  | 5  | 2  | 5  | 5  | 5  |
| R210      | 5                | 5 | 2 | 1 | 5 | 2 | 4 | 2 | 4 | 4  | 4  | 2  | 3  | 3  | 3  |
| R211      | 5                | 5 | 1 | 1 | 5 | 2 | 4 | 1 | 5 | 5  | 4  | 2  | 5  | 1  | 5  |
| R212      | 4                | 4 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3  | 4  | 1  | 5  | 5  | 2  |
| R213      | 4                | 4 | 4 | 2 | 4 | 4 | 4 | 2 | 4 | 4  | 4  | 3  | 3  | 3  | 3  |
| R214      | 4                | 4 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 4  | 4  | 2  | 4  | 2  | 4  |
| R215      | 4                | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 4  | 3  | 2  | 3  | 3  | 3  |
| R216      | 5                | 5 | 1 | 1 | 5 | 1 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 1  | 5  |
| R217      | 4                | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 4  | 4  | 2  | 4  | 2  | 4  |
| R218      | 5                | 5 | 1 | 1 | 5 | 3 | 5 | 2 | 5 | 1  | 1  | 1  | 3  | 5  | 5  |
| R219      | 5                | 5 | 4 | 1 | 5 | 1 | 2 | 4 | 2 | 5  | 5  | 1  | 5  | 4  | 2  |
| R220      | 4                | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 4  | 4  | 2  | 5  | 5  | 5  |
| R221      | 5                | 5 | 2 | 2 | 3 | 3 | 4 | 2 | 4 | 4  | 4  | 2  | 4  | 2  | 4  |
| R222      | 4                | 5 | 1 | 2 | 4 | 2 | 4 | 1 | 5 | 3  | 4  | 2  | 3  | 4  | 3  |
| R223      | 5                | 5 | 1 | 1 | 4 | 2 | 4 | 2 | 4 | 4  | 5  | 1  | 4  | 3  | 4  |
| R224      | 5                | 5 | 1 | 1 | 5 | 3 | 5 | 1 | 5 | 5  | 5  | 1  | 5  | 3  | 5  |
| R225      | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  | 5  | 5  | 4  | 3  | 4  |
| R226      | 5                | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4  | 4  | 4  | 3  | 3  | 3  |
| R227      | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  | 5  | 5  | 5  | 2  | 5  |
| R228      | 4                | 5 | 5 | 4 | 5 | 4 | 5 | 4 | 3 | 5  | 4  | 5  | 5  | 5  | 5  |
| R229      | 4                | 4 | 2 | 4 | 4 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 4  | 3  | 3  |
| R230      | 5                | 5 | 5 | 5 | 4 | 4 | 5 | 4 | 5 | 4  | 4  | 4  | 4  | 3  | 4  |
| R231      | 4                | 1 | 1 | 1 | 1 | 3 | 1 | 4 | 4 | 4  | 4  | 4  | 4  | 3  | 3  |
| R232      | 4                | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 1  | 1  | 1  | 3  | 3  | 4  |

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|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R233      | 4                | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 5 | 5  | 4  | 5  | 4  | 3  | 4  |
| R234      | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  | 5  | 5  | 5  | 3  | 5  |
| R235      | 5                | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 4 | 5  | 5  | 5  | 3  | 3  | 3  |
| R236      | 4                | 4 | 5 | 5 | 5 | 2 | 3 | 4 | 4 | 2  | 4  | 4  | 2  | 1  | 3  |
| R237      | 4                | 4 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 4  | 5  | 5  | 4  | 4  | 4  |
| R238      | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 4  | 3  | 4  |
| R239      | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 4  | 4  | 4  | 3  | 4  |
| R240      | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 3  | 4  | 4  | 2  | 3  | 3  |
| R241      | 4                | 4 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 2  | 2  |
| R242      | 4                | 4 | 4 | 4 | 3 | 3 | 4 | 5 | 5 | 5  | 5  | 4  | 5  | 4  | 5  |
| R243      | 5                | 5 | 5 | 5 | 3 | 5 | 2 | 5 | 4 | 2  | 2  | 5  | 2  | 1  | 5  |
| R244      | 5                | 5 | 5 | 5 | 5 | 4 | 5 | 4 | 4 | 4  | 4  | 4  | 4  | 3  | 3  |
| R245      | 5                | 4 | 5 | 4 | 3 | 3 | 4 | 4 | 3 | 4  | 3  | 4  | 3  | 2  | 4  |
| R246      | 5                | 5 | 5 | 4 | 4 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 3  | 4  | 4  |
| R247      | 4                | 4 | 4 | 4 | 5 | 3 | 4 | 4 | 3 | 4  | 4  | 4  | 4  | 4  | 4  |
| R248      | 4                | 4 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4  | 4  | 4  | 4  | 3  | 3  |
| R249      | 5                | 5 | 5 | 4 | 4 | 3 | 5 | 5 | 5 | 5  | 5  | 5  | 4  | 4  | 5  |
| R250      | 4                | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 5  | 5  | 4  |
| R251      | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 1  | 1  | 1  | 3  | 3  | 4  |
| R252      | 4                | 4 | 5 | 5 | 3 | 3 | 4 | 5 | 4 | 3  | 4  | 4  | 4  | 3  | 4  |
| R253      | 5                | 4 | 2 | 2 | 5 | 2 | 3 | 4 | 4 | 3  | 2  | 2  | 3  | 3  | 2  |
| R254      | 5                | 4 | 3 | 2 | 4 | 2 | 2 | 5 | 4 | 3  | 3  | 4  | 4  | 4  | 2  |
| R255      | 5                | 4 | 3 | 2 | 4 | 2 | 2 | 5 | 4 | 3  | 3  | 4  | 4  | 4  | 2  |
| R256      | 5                | 4 | 3 | 2 | 4 | 2 | 2 | 1 | 2 | 1  | 1  | 1  | 4  | 4  | 1  |
| R257      | 5                | 5 | 5 | 4 | 4 | 4 | 5 | 5 | 4 | 3  | 4  | 4  | 2  | 2  | 3  |
| R258      | 4                | 3 | 5 | 3 | 4 | 4 | 5 | 4 | 4 | 4  | 4  | 4  | 2  | 3  | 3  |
| R259      | 5                | 4 | 4 | 3 | 3 | 1 | 1 | 1 | 3 | 3  | 2  | 3  | 3  | 4  | 4  |
| R260      | 5                | 5 | 5 | 5 | 5 | 4 | 5 | 4 | 5 | 3  | 5  | 4  | 2  | 3  | 3  |
| R261      | 5                | 5 | 5 | 3 | 4 | 3 | 5 | 5 | 5 | 3  | 5  | 4  | 3  | 3  | 3  |
| R262      | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4  | 5  | 5  | 1  | 3  | 1  |
| R263      | 5                | 5 | 5 | 4 | 3 | 3 | 1 | 4 | 4 | 3  | 3  | 4  | 3  | 3  | 2  |
| R264      | 5                | 5 | 4 | 4 | 4 | 5 | 3 | 3 | 3 | 2  | 3  | 2  | 2  | 4  | 2  |
| R265      | 5                | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 4 | 1  | 4  | 3  | 4  | 4  | 2  |
| R266      | 5                | 5 | 5 | 5 | 5 | 4 | 5 | 4 | 4 | 4  | 4  | 4  | 2  | 2  | 2  |
| R267      | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4  | 5  | 5  | 2  | 2  | 3  |
| R268      | 5                | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5  | 5  | 5  | 2  | 2  | 3  |
| R269      | 5                | 5 | 5 | 5 | 5 | 4 | 5 | 4 | 4 | 4  | 4  | 5  | 2  | 1  | 2  |
| R270      | 4                | 4 | 4 | 4 | 4 | 2 | 4 | 3 | 4 | 3  | 3  | 3  | 2  | 2  | 2  |
| R271      | 4                | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4  | 3  | 4  | 2  | 3  | 4  |
| R272      | 5                | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 5 | 4  | 5  | 5  | 1  | 2  | 1  |
| R273      | 4                | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4  | 5  | 5  | 3  | 1  | 1  |
| R274      | 4                | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 3  | 4  | 4  | 3  | 3  | 3  |
| R275      | 3                | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 3  | 3  | 3  | 3  | 5  | 5  |
| R276      | 5                | 5 | 5 | 5 | 4 | 5 | 4 | 5 | 5 | 4  | 5  | 5  | 2  | 3  | 2  |
| R277      | 5                | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 4  | 5  | 5  | 2  | 2  | 2  |
| R278      | 5                | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 3 | 3  | 3  | 4  | 2  | 3  | 2  |
| R279      | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 5  | 5  | 2  | 1  | 1  |

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|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R280      | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 5  | 5  | 2  | 1  | 2  |
| R281      | 3                | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3  | 2  | 4  | 3  | 3  | 3  |
| R282      | 5                | 5 | 5 | 5 | 5 | 2 | 2 | 2 | 5 | 4  | 5  | 5  | 4  | 4  | 3  |
| R283      | 4                | 5 | 5 | 5 | 5 | 2 | 5 | 5 | 5 | 5  | 3  | 3  | 3  | 3  | 3  |
| R284      | 5                | 3 | 5 | 5 | 5 | 3 | 5 | 4 | 5 | 5  | 5  | 4  | 2  | 3  | 4  |
| R285      | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 3  | 2  |
| R286      | 5                | 5 | 5 | 5 | 4 | 2 | 5 | 5 | 5 | 3  | 5  | 4  | 4  | 2  | 3  |
| R287      | 4                | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 3  | 3  | 3  | 3  | 4  | 2  |
| R288      | 3                | 3 | 3 | 4 | 3 | 3 | 2 | 3 | 3 | 3  | 3  | 3  | 3  | 3  | 4  |
| R289      | 5                | 5 | 5 | 5 | 5 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 3  | 3  | 3  |
| R290      | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4  | 5  | 5  | 2  | 2  | 3  |
| R291      | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 3  | 4  | 3  |
| R292      | 4                | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 3  | 3  | 4  | 2  | 3  | 2  |
| R293      | 4                | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 4  | 3  | 3  |
| R294      | 5                | 5 | 5 | 5 | 5 | 2 | 5 | 4 | 5 | 3  | 5  | 5  | 4  | 5  | 3  |
| R295      | 5                | 4 | 5 | 5 | 4 | 2 | 4 | 3 | 4 | 3  | 4  | 4  | 3  | 3  | 2  |
| R296      | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 4  | 4  | 3  | 3  | 3  |
| R297      | 4                | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4  | 4  | 4  | 2  | 2  | 2  |
| R298      | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 2  | 2  |
| R299      | 4                | 4 | 5 | 5 | 4 | 4 | 5 | 3 | 3 | 4  | 3  | 4  | 3  | 3  | 4  |
| R300      | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 3  | 4  | 4  | 3  | 4  | 3  |
| R301      | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 5  | 5  | 4  | 2  | 3  | 4  |
| R302      | 4                | 5 | 5 | 5 | 5 | 3 | 5 | 3 | 5 | 3  | 4  | 4  | 2  | 3  | 2  |
| R303      | 5                | 4 | 4 | 4 | 4 | 2 | 4 | 3 | 2 | 3  | 4  | 4  | 3  | 4  | 3  |
| R304      | 5                | 5 | 4 | 5 | 5 | 4 | 5 | 4 | 4 | 5  | 5  | 4  | 4  | 4  | 3  |
| R305      | 4                | 3 | 5 | 4 | 3 | 2 | 3 | 3 | 4 | 3  | 4  | 4  | 3  | 3  | 2  |
| R306      | 5                | 4 | 5 | 5 | 5 | 2 | 5 | 5 | 5 | 5  | 5  | 5  | 1  | 1  | 1  |
| R307      | 4                | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 3  | 3  |
| R308      | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 3  | 4  | 2  |
| R309      | 5                | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 4  | 4  | 5  | 2  | 2  | 2  |
| R310      | 5                | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3  | 4  | 4  | 3  | 3  | 3  |
| R311      | 2                | 3 | 5 | 3 | 2 | 2 | 3 | 4 | 3 | 3  | 3  | 3  | 3  | 5  | 3  |
| R312      | 4                | 4 | 2 | 4 | 2 | 2 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 3  | 2  |
| R313      | 5                | 5 | 5 | 5 | 5 | 4 | 3 | 5 | 4 | 3  | 4  | 4  | 2  | 3  | 1  |
| R314      | 5                | 5 | 5 | 5 | 5 | 2 | 5 | 4 | 4 | 4  | 4  | 4  | 3  | 4  | 2  |
| R315      | 3                | 3 | 5 | 4 | 4 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 2  | 2  |
| R316      | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3  | 4  | 4  | 3  | 3  | 2  |
| R317      | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3  | 4  | 4  | 3  | 2  | 3  |
| R318      | 5                | 5 | 5 | 5 | 5 | 2 | 5 | 4 | 5 | 4  | 5  | 4  | 2  | 4  | 2  |
| R319      | 5                | 5 | 5 | 5 | 5 | 3 | 3 | 3 | 1 | 3  | 5  | 5  | 1  | 3  | 3  |
| R320      | 4                | 4 | 5 | 4 | 5 | 4 | 4 | 4 | 3 | 4  | 4  | 4  | 3  | 3  | 3  |
| R321      | 5                | 5 | 5 | 5 | 5 | 3 | 5 | 3 | 2 | 3  | 3  | 4  | 2  | 4  | 3  |
| R322      | 3                | 3 | 5 | 5 | 2 | 1 | 3 | 3 | 3 | 3  | 3  | 3  | 1  | 1  | 1  |
| R323      | 5                | 5 | 5 | 5 | 4 | 2 | 4 | 4 | 4 | 5  | 5  | 4  | 4  | 4  | 1  |
| R324      | 5                | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 4  | 5  | 5  | 1  | 3  | 3  |
| R325      | 5                | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 3 | 3  | 3  | 4  | 3  | 4  | 3  |
| R326      | 5                | 4 | 4 | 4 | 5 | 2 | 5 | 3 | 4 | 3  | 4  | 4  | 2  | 3  | 3  |
| R327      | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 1 | 1 | 1  | 1  | 1  | 2  | 3  | 1  |
| R328      | 5                | 4 | 5 | 4 | 3 | 1 | 3 | 4 | 3 | 2  | 3  | 5  | 5  | 5  | 2  |

| Responden | Nomor Pertanyaan |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R329      | 5                | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 4  | 4  | 4  | 3  | 3  | 3  |
| R330      | 5                | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 3 | 3  | 3  | 4  | 3  | 4  | 4  |
| R331      | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 3  | 4  | 3  | 2  | 2  | 1  |
| R332      | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 5  | 5  | 5  | 1  | 2  | 1  |
| R333      | 5                | 5 | 5 | 5 | 5 | 2 | 4 | 3 | 5 | 5  | 5  | 5  | 2  | 3  | 3  |
| R334      | 4                | 3 | 5 | 3 | 4 | 2 | 4 | 3 | 2 | 3  | 2  | 4  | 2  | 5  | 4  |
| R335      | 5                | 5 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 3  | 4  | 3  | 3  | 3  | 2  |
| R336      | 5                | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 2 | 2  | 2  | 4  | 2  | 2  | 4  |
| R337      | 5                | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 3  | 2  |
| R338      | 4                | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 5 | 3  | 4  | 4  | 3  | 4  | 2  |
| R339      | 2                | 3 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5  | 3  | 3  | 3  | 3  | 2  |
| R340      | 5                | 5 | 5 | 5 | 5 | 3 | 3 | 4 | 3 | 3  | 3  | 4  | 5  | 5  | 2  |
| R341      | 4                | 4 | 5 | 4 | 4 | 3 | 4 | 4 | 4 | 3  | 4  | 4  | 3  | 2  | 3  |
| R342      | 5                | 5 | 5 | 5 | 1 | 1 | 1 | 1 | 1 | 1  | 2  | 2  | 5  | 5  | 5  |
| R343      | 4                | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 3  | 3  | 4  | 3  | 4  | 4  |
| R344      | 5                | 5 | 5 | 4 | 4 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 3  | 3  | 2  |
| R345      | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3  | 4  | 4  | 2  | 3  | 3  |
| R346      | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 3  | 2  |
| R347      | 5                | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 4  | 4  | 4  | 3  | 3  | 2  |
| R348      | 5                | 5 | 4 | 5 | 4 | 3 | 5 | 4 | 4 | 2  | 4  | 3  | 3  | 3  | 3  |
| R349      | 5                | 5 | 4 | 4 | 3 | 3 | 4 | 4 | 5 | 4  | 5  | 4  | 2  | 3  | 2  |
| R350      | 4                | 5 | 5 | 5 | 5 | 4 | 5 | 4 | 5 | 4  | 5  | 4  | 3  | 3  | 3  |
| R351      | 4                | 4 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 3  | 2  |
| R352      | 3                | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 3  | 3  | 4  | 2  | 3  | 3  |
| R353      | 5                | 5 | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 3  | 4  | 4  | 3  | 4  | 3  |
| R354      | 4                | 4 | 3 | 4 | 4 | 2 | 3 | 4 | 4 | 3  | 4  | 4  | 3  | 3  | 3  |
| R355      | 5                | 5 | 5 | 3 | 4 | 4 | 5 | 5 | 5 | 4  | 5  | 4  | 3  | 5  | 5  |
| R356      | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3  | 4  | 4  | 3  | 3  | 3  |
| R357      | 4                | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 4  | 4  | 3  | 3  | 3  | 3  |
| R358      | 4                | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3  | 4  | 4  | 2  | 3  | 4  |
| R359      | 4                | 5 | 5 | 4 | 4 | 3 | 5 | 4 | 4 | 3  | 4  | 5  | 3  | 3  | 3  |
| R360      | 4                | 4 | 3 | 4 | 2 | 3 | 4 | 4 | 4 | 4  | 4  | 4  | 3  | 3  | 5  |
| R361      | 4                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 4  | 4  | 2  | 2  | 2  |
| R362      | 5                | 5 | 5 | 5 | 5 | 4 | 5 | 4 | 4 | 3  | 5  | 4  | 2  | 4  | 4  |
| R363      | 5                | 5 | 2 | 5 | 3 | 2 | 5 | 5 | 5 | 5  | 5  | 5  | 2  | 4  | 2  |
| R364      | 3                | 5 | 5 | 5 | 3 | 1 | 5 | 3 | 5 | 2  | 4  | 5  | 3  | 1  | 3  |

| Responden | Nomor Pertanyaan |    |    |    |    |    |    |    |    |    | Nilai |
|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R1        | 5                | 2  | 5  | 5  | 3  | 4  | 2  | 4  | 3  | 3  | 94    |
| R2        | 5                | 1  | 5  | 5  | 5  | 3  | 3  | 4  | 2  | 3  | 93    |
| R3        | 3                | 3  | 3  | 4  | 4  | 5  | 3  | 3  | 4  | 3  | 92    |
| R4        | 4                | 2  | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 3  | 90    |
| R5        | 4                | 1  | 5  | 5  | 4  | 4  | 4  | 3  | 3  | 3  | 91    |
| R6        | 4                | 4  | 5  | 4  | 5  | 4  | 3  | 4  | 1  | 3  | 89    |
| R7        | 3                | 4  | 4  | 4  | 5  | 4  | 2  | 3  | 3  | 3  | 92    |
| R8        | 4                | 5  | 5  | 4  | 5  | 5  | 3  | 4  | 3  | 3  | 103   |
| R9        | 5                | 2  | 5  | 5  | 5  | 4  | 3  | 4  | 4  | 4  | 99    |



| Responden | Nomor Pertanyaan |    |    |    |    |    |    |    |    |    | Nilai |
|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R10       | 4                | 2  | 4  | 4  | 4  | 4  | 3  | 3  | 3  | 3  | 87    |
| R11       | 5                | 1  | 3  | 4  | 5  | 5  | 4  | 4  | 4  | 4  | 97    |
| R12       | 4                | 2  | 5  | 4  | 4  | 4  | 3  | 4  | 4  | 3  | 97    |
| R13       | 4                | 3  | 5  | 5  | 5  | 4  | 2  | 4  | 4  | 4  | 104   |
| R14       | 5                | 1  | 5  | 5  | 5  | 5  | 3  | 4  | 4  | 4  | 97    |
| R15       | 4                | 1  | 4  | 3  | 4  | 4  | 2  | 3  | 2  | 4  | 78    |
| R16       | 5                | 1  | 5  | 5  | 5  | 5  | 4  | 5  | 3  | 5  | 103   |
| R17       | 4                | 3  | 4  | 1  | 5  | 5  | 1  | 5  | 5  | 5  | 94    |
| R18       | 4                | 2  | 4  | 4  | 4  | 4  | 3  | 3  | 3  | 4  | 90    |
| R19       | 5                | 2  | 4  | 4  | 5  | 5  | 3  | 5  | 3  | 5  | 89    |
| R20       | 2                | 2  | 5  | 5  | 5  | 4  | 3  | 2  | 1  | 4  | 94    |
| R21       | 4                | 5  | 4  | 4  | 3  | 3  | 3  | 3  | 3  | 4  | 92    |
| R22       | 5                | 1  | 5  | 4  | 5  | 4  | 3  | 4  | 4  | 3  | 98    |
| R23       | 4                | 2  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 3  | 95    |
| R24       | 3                | 3  | 4  | 4  | 5  | 5  | 3  | 4  | 5  | 4  | 96    |
| R25       | 4                | 2  | 4  | 5  | 5  | 4  | 5  | 3  | 3  | 3  | 103   |
| R26       | 4                | 2  | 4  | 5  | 5  | 5  | 1  | 4  | 4  | 4  | 100   |
| R27       | 5                | 1  | 4  | 4  | 4  | 5  | 4  | 4  | 4  | 4  | 94    |
| R28       | 5                | 1  | 5  | 5  | 5  | 4  | 2  | 3  | 2  | 2  | 94    |
| R29       | 5                | 2  | 5  | 4  | 5  | 5  | 3  | 4  | 4  | 3  | 102   |
| R30       | 5                | 1  | 5  | 5  | 5  | 5  | 1  | 5  | 5  | 5  | 80    |
| R31       | 5                | 1  | 5  | 5  | 4  | 4  | 3  | 4  | 4  | 3  | 100   |
| R32       | 5                | 1  | 5  | 4  | 5  | 4  | 4  | 3  | 3  | 3  | 90    |
| R33       | 5                | 2  | 5  | 5  | 4  | 4  | 2  | 4  | 1  | 1  | 77    |
| R34       | 5                | 1  | 4  | 4  | 5  | 5  | 2  | 4  | 5  | 4  | 99    |
| R35       | 5                | 1  | 5  | 5  | 5  | 5  | 1  | 5  | 5  | 5  | 95    |
| R36       | 5                | 2  | 2  | 4  | 4  | 4  | 2  | 3  | 4  | 4  | 90    |
| R37       | 5                | 1  | 5  | 5  | 5  | 5  | 5  | 4  | 4  | 4  | 106   |
| R38       | 4                | 1  | 4  | 4  | 5  | 3  | 3  | 3  | 3  | 3  | 89    |
| R39       | 4                | 2  | 4  | 4  | 5  | 4  | 3  | 3  | 4  | 3  | 85    |
| R40       | 4                | 1  | 5  | 4  | 5  | 5  | 4  | 4  | 4  | 3  | 92    |
| R41       | 5                | 1  | 5  | 4  | 5  | 4  | 2  | 4  | 3  | 3  | 89    |
| R42       | 5                | 1  | 5  | 5  | 5  | 4  | 3  | 3  | 3  | 4  | 102   |
| R43       | 5                | 2  | 5  | 5  | 5  | 4  | 1  | 3  | 3  | 4  | 92    |
| R44       | 4                | 1  | 5  | 4  | 5  | 4  | 2  | 4  | 3  | 3  | 92    |
| R45       | 5                | 1  | 5  | 4  | 5  | 4  | 2  | 3  | 4  | 5  | 86    |
| R46       | 4                | 2  | 3  | 4  | 5  | 4  | 3  | 3  | 3  | 4  | 91    |
| R47       | 4                | 1  | 5  | 5  | 5  | 5  | 1  | 3  | 3  | 3  | 86    |
| R48       | 5                | 1  | 5  | 5  | 5  | 4  | 2  | 3  | 3  | 5  | 97    |
| R49       | 5                | 1  | 5  | 5  | 4  | 5  | 3  | 4  | 4  | 4  | 103   |
| R50       | 5                | 1  | 5  | 5  | 4  | 3  | 3  | 3  | 2  | 5  | 94    |
| R51       | 5                | 1  | 5  | 4  | 5  | 5  | 1  | 5  | 3  | 3  | 102   |
| R52       | 1                | 1  | 5  | 3  | 4  | 2  | 2  | 3  | 5  | 5  | 85    |
| R53       | 5                | 5  | 5  | 4  | 4  | 5  | 1  | 3  | 2  | 2  | 93    |
| R54       | 2                | 2  | 4  | 4  | 4  | 2  | 2  | 4  | 3  | 3  | 86    |
| R55       | 5                | 1  | 5  | 4  | 5  | 5  | 3  | 5  | 3  | 3  | 98    |



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|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R56       | 5                | 1  | 5  | 5  | 5  | 5  | 1  | 5  | 5  | 5  | 95    |
| R57       | 3                | 2  | 5  | 5  | 5  | 5  | 3  | 4  | 3  | 3  | 93    |
| R58       | 5                | 1  | 5  | 5  | 5  | 4  | 3  | 3  | 2  | 3  | 100   |
| R59       | 4                | 1  | 5  | 4  | 5  | 5  | 2  | 5  | 3  | 3  | 104   |
| R60       | 3                | 1  | 5  | 5  | 5  | 5  | 3  | 5  | 4  | 3  | 102   |
| R61       | 4                | 3  | 5  | 3  | 5  | 4  | 3  | 4  | 3  | 3  | 100   |
| R62       | 5                | 1  | 5  | 5  | 5  | 5  | 4  | 5  | 4  | 4  | 102   |
| R63       | 2                | 2  | 2  | 3  | 5  | 5  | 4  | 3  | 3  | 4  | 88    |
| R64       | 5                | 2  | 3  | 4  | 4  | 4  | 3  | 4  | 3  | 3  | 93    |
| R65       | 5                | 1  | 5  | 5  | 5  | 5  | 5  | 1  | 5  | 1  | 105   |
| R66       | 5                | 2  | 4  | 5  | 4  | 4  | 3  | 3  | 4  | 4  | 95    |
| R67       | 5                | 2  | 5  | 5  | 5  | 4  | 3  | 5  | 4  | 3  | 95    |
| R68       | 4                | 2  | 5  | 4  | 4  | 4  | 4  | 3  | 3  | 3  | 88    |
| R69       | 4                | 1  | 5  | 4  | 5  | 4  | 2  | 3  | 3  | 2  | 96    |
| R70       | 4                | 2  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 3  | 89    |
| R71       | 5                | 1  | 5  | 4  | 5  | 4  | 3  | 4  | 4  | 2  | 99    |
| R72       | 5                | 1  | 5  | 5  | 5  | 5  | 1  | 5  | 3  | 4  | 95    |
| R73       | 5                | 1  | 5  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 91    |
| R74       | 4                | 2  | 4  | 4  | 4  | 4  | 3  | 4  | 4  | 4  | 89    |
| R75       | 5                | 1  | 5  | 4  | 5  | 5  | 2  | 4  | 4  | 5  | 101   |
| R76       | 4                | 2  | 4  | 4  | 4  | 4  | 4  | 4  | 3  | 2  | 94    |
| R77       | 4                | 2  | 4  | 5  | 4  | 2  | 2  | 4  | 4  | 4  | 90    |
| R78       | 5                | 1  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 109   |
| R79       | 4                | 2  | 4  | 3  | 4  | 3  | 3  | 3  | 3  | 3  | 90    |
| R80       | 4                | 2  | 4  | 4  | 5  | 3  | 2  | 4  | 3  | 3  | 95    |
| R81       | 4                | 1  | 5  | 4  | 5  | 4  | 4  | 4  | 3  | 4  | 93    |
| R82       | 4                | 2  | 4  | 4  | 4  | 4  | 4  | 3  | 3  | 3  | 94    |
| R83       | 5                | 1  | 5  | 4  | 4  | 4  | 4  | 4  | 4  | 3  | 100   |
| R84       | 4                | 2  | 5  | 4  | 5  | 4  | 3  | 3  | 3  | 3  | 100   |
| R85       | 5                | 2  | 3  | 5  | 5  | 5  | 4  | 3  | 4  | 5  | 104   |
| R86       | 4                | 1  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 3  | 87    |
| R87       | 5                | 1  | 5  | 5  | 5  | 5  | 1  | 5  | 5  | 5  | 88    |
| R88       | 5                | 1  | 3  | 3  | 5  | 3  | 3  | 3  | 3  | 3  | 82    |
| R89       | 5                | 1  | 5  | 5  | 5  | 5  | 4  | 5  | 4  | 5  | 105   |
| R90       | 5                | 1  | 4  | 4  | 4  | 4  | 4  | 5  | 3  | 3  | 95    |
| R91       | 3                | 2  | 5  | 5  | 5  | 4  | 3  | 4  | 3  | 3  | 99    |
| R92       | 4                | 2  | 4  | 3  | 3  | 4  | 3  | 4  | 4  | 3  | 80    |
| R93       | 3                | 1  | 4  | 4  | 5  | 5  | 4  | 3  | 3  | 4  | 101   |
| R94       | 3                | 1  | 4  | 4  | 5  | 3  | 3  | 5  | 4  | 3  | 94    |
| R95       | 5                | 2  | 5  | 4  | 4  | 4  | 3  | 3  | 4  | 3  | 96    |
| R96       | 4                | 1  | 5  | 5  | 5  | 4  | 1  | 4  | 4  | 3  | 97    |
| R97       | 5                | 1  | 2  | 5  | 5  | 5  | 4  | 3  | 4  | 4  | 94    |
| R98       | 5                | 1  | 5  | 4  | 5  | 4  | 5  | 3  | 4  | 3  | 102   |
| R99       | 5                | 1  | 5  | 3  | 5  | 3  | 3  | 3  | 3  | 4  | 86    |
| R100      | 4                | 2  | 4  | 5  | 4  | 5  | 4  | 3  | 4  | 4  | 83    |
| R101      | 4                | 2  | 4  | 4  | 4  | 3  | 3  | 2  | 2  | 4  | 87    |

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|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R102      | 5                | 2  | 5  | 3  | 4  | 3  | 2  | 4  | 4  | 3  | 90    |
| R103      | 4                | 1  | 5  | 4  | 3  | 3  | 2  | 3  | 3  | 3  | 87    |
| R104      | 5                | 2  | 4  | 4  | 5  | 4  | 3  | 2  | 3  | 3  | 95    |
| R105      | 5                | 1  | 5  | 5  | 4  | 5  | 3  | 4  | 4  | 3  | 95    |
| R106      | 4                | 2  | 4  | 4  | 5  | 4  | 4  | 3  | 4  | 3  | 96    |
| R107      | 5                | 1  | 5  | 5  | 5  | 5  | 4  | 5  | 4  | 4  | 96    |
| R108      | 5                | 2  | 5  | 5  | 4  | 5  | 3  | 2  | 3  | 5  | 95    |
| R109      | 5                | 3  | 4  | 3  | 4  | 5  | 2  | 3  | 2  | 2  | 92    |
| R110      | 5                | 1  | 4  | 4  | 5  | 4  | 2  | 4  | 3  | 3  | 95    |
| R111      | 3                | 3  | 3  | 4  | 4  | 5  | 1  | 4  | 4  | 3  | 91    |
| R112      | 1                | 4  | 4  | 5  | 4  | 2  | 2  | 2  | 4  | 3  | 94    |
| R113      | 4                | 2  | 2  | 3  | 4  | 5  | 3  | 3  | 5  | 5  | 79    |
| R114      | 4                | 2  | 4  | 3  | 5  | 1  | 2  | 4  | 3  | 1  | 84    |
| R115      | 4                | 1  | 2  | 3  | 4  | 4  | 1  | 2  | 3  | 4  | 72    |
| R116      | 1                | 2  | 3  | 2  | 3  | 3  | 5  | 5  | 3  | 2  | 72    |
| R117      | 5                | 1  | 3  | 2  | 2  | 1  | 1  | 2  | 3  | 1  | 64    |
| R118      | 2                | 2  | 4  | 4  | 2  | 2  | 2  | 1  | 5  | 4  | 63    |
| R119      | 4                | 5  | 1  | 5  | 5  | 1  | 1  | 3  | 2  | 4  | 88    |
| R120      | 5                | 2  | 3  | 1  | 4  | 2  | 1  | 1  | 4  | 5  | 79    |
| R121      | 3                | 1  | 4  | 1  | 1  | 5  | 1  | 3  | 1  | 2  | 64    |
| R122      | 4                | 2  | 3  | 3  | 5  | 2  | 2  | 1  | 1  | 2  | 71    |
| R123      | 3                | 5  | 2  | 1  | 3  | 2  | 5  | 2  | 3  | 1  | 59    |
| R124      | 3                | 3  | 3  | 4  | 5  | 5  | 4  | 5  | 4  | 3  | 74    |
| R125      | 4                | 4  | 3  | 3  | 4  | 2  | 3  | 1  | 2  | 5  | 70    |
| R126      | 3                | 2  | 1  | 4  | 5  | 3  | 1  | 5  | 3  | 4  | 73    |
| R127      | 5                | 5  | 3  | 3  | 2  | 3  | 3  | 2  | 5  | 3  | 85    |
| R128      | 4                | 5  | 1  | 5  | 2  | 5  | 3  | 2  | 5  | 5  | 88    |
| R129      | 5                | 4  | 1  | 2  | 2  | 4  | 5  | 3  | 4  | 4  | 82    |
| R130      | 5                | 4  | 5  | 5  | 5  | 5  | 5  | 3  | 4  | 3  | 94    |
| R131      | 5                | 5  | 5  | 5  | 3  | 5  | 3  | 1  | 3  | 3  | 86    |
| R132      | 5                | 4  | 3  | 5  | 3  | 5  | 5  | 3  | 3  | 4  | 92    |
| R133      | 5                | 4  | 2  | 4  | 2  | 5  | 4  | 1  | 4  | 5  | 85    |
| R134      | 5                | 5  | 5  | 5  | 3  | 3  | 4  | 1  | 5  | 5  | 94    |
| R135      | 4                | 5  | 1  | 2  | 2  | 5  | 5  | 1  | 3  | 5  | 75    |
| R136      | 4                | 4  | 2  | 2  | 3  | 3  | 4  | 2  | 5  | 4  | 81    |
| R137      | 5                | 5  | 2  | 2  | 2  | 3  | 3  | 3  | 5  | 5  | 80    |
| R138      | 5                | 5  | 1  | 5  | 1  | 5  | 4  | 1  | 5  | 3  | 81    |
| R139      | 4                | 5  | 1  | 2  | 1  | 3  | 3  | 2  | 3  | 5  | 81    |
| R140      | 5                | 4  | 1  | 5  | 3  | 4  | 5  | 1  | 3  | 5  | 86    |
| R141      | 5                | 5  | 2  | 4  | 3  | 4  | 4  | 2  | 3  | 5  | 84    |
| R142      | 4                | 5  | 3  | 2  | 1  | 3  | 5  | 3  | 4  | 4  | 83    |
| R143      | 5                | 5  | 5  | 5  | 5  | 5  | 5  | 3  | 3  | 5  | 93    |
| R144      | 5                | 5  | 3  | 4  | 3  | 3  | 5  | 2  | 3  | 3  | 89    |
| R145      | 5                | 5  | 1  | 5  | 1  | 4  | 3  | 3  | 5  | 5  | 91    |
| R146      | 4                | 4  | 5  | 4  | 5  | 5  | 5  | 5  | 5  | 4  | 93    |
| R147      | 5                | 5  | 5  | 4  | 5  | 5  | 5  | 5  | 4  | 5  | 103   |



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|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R194      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 82    |
| R195      | 4                | 4  | 1  | 5  | 1  | 2  | 3  | 3  | 3  | 3  | 77    |
| R196      | 5                | 3  | 3  | 3  | 1  | 5  | 5  | 3  | 1  | 3  | 82    |
| R197      | 5                | 5  | 1  | 5  | 1  | 5  | 1  | 1  | 5  | 5  | 87    |
| R198      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 2  | 2  | 82    |
| R199      | 5                | 5  | 1  | 4  | 2  | 3  | 3  | 2  | 3  | 3  | 84    |
| R200      | 4                | 4  | 2  | 4  | 2  | 3  | 3  | 2  | 3  | 3  | 78    |
| R201      | 5                | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 4  | 3  | 101   |
| R202      | 5                | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 102   |
| R203      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 4  | 4  | 82    |
| R204      | 4                | 4  | 2  | 4  | 2  | 4  | 2  | 2  | 4  | 3  | 81    |
| R205      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 2  | 3  | 3  | 80    |
| R206      | 4                | 4  | 2  | 4  | 1  | 4  | 2  | 2  | 4  | 4  | 82    |
| R207      | 4                | 4  | 2  | 4  | 1  | 4  | 2  | 1  | 4  | 5  | 75    |
| R208      | 5                | 5  | 1  | 4  | 1  | 4  | 2  | 2  | 3  | 4  | 84    |
| R209      | 5                | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 110   |
| R210      | 4                | 4  | 2  | 4  | 2  | 3  | 3  | 2  | 3  | 3  | 79    |
| R211      | 5                | 5  | 1  | 5  | 1  | 5  | 5  | 1  | 5  | 5  | 89    |
| R212      | 1                | 3  | 1  | 5  | 1  | 5  | 5  | 5  | 5  | 1  | 83    |
| R213      | 5                | 5  | 3  | 3  | 1  | 3  | 3  | 1  | 3  | 3  | 82    |
| R214      | 4                | 4  | 2  | 4  | 2  | 4  | 2  | 2  | 4  | 3  | 75    |
| R215      | 3                | 4  | 2  | 3  | 2  | 4  | 3  | 2  | 4  | 3  | 76    |
| R216      | 5                | 5  | 1  | 5  | 1  | 5  | 3  | 1  | 4  | 5  | 86    |
| R217      | 4                | 4  | 2  | 4  | 2  | 4  | 3  | 2  | 3  | 3  | 77    |
| R218      | 4                | 5  | 1  | 1  | 1  | 1  | 4  | 1  | 1  | 3  | 70    |
| R219      | 2                | 5  | 1  | 2  | 1  | 5  | 5  | 1  | 2  | 2  | 77    |
| R220      | 5                | 5  | 5  | 5  | 3  | 4  | 4  | 2  | 4  | 4  | 94    |
| R221      | 4                | 4  | 2  | 4  | 2  | 4  | 4  | 1  | 4  | 4  | 83    |
| R222      | 5                | 4  | 3  | 4  | 1  | 5  | 3  | 2  | 3  | 3  | 80    |
| R223      | 4                | 4  | 2  | 4  | 2  | 5  | 5  | 1  | 4  | 4  | 84    |
| R224      | 3                | 5  | 1  | 5  | 1  | 5  | 4  | 1  | 3  | 2  | 85    |
| R225      | 5                | 5  | 5  | 5  | 5  | 5  | 1  | 5  | 3  | 5  | 115   |
| R226      | 5                | 5  | 4  | 4  | 5  | 5  | 3  | 4  | 3  | 3  | 103   |
| R227      | 5                | 5  | 5  | 5  | 5  | 5  | 1  | 5  | 4  | 5  | 117   |
| R228      | 5                | 5  | 5  | 5  | 5  | 5  | 2  | 5  | 3  | 3  | 111   |
| R229      | 4                | 5  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 3  | 93    |
| R230      | 5                | 5  | 5  | 5  | 5  | 4  | 5  | 4  | 3  | 3  | 109   |
| R231      | 4                | 4  | 4  | 5  | 5  | 4  | 3  | 3  | 3  | 3  | 80    |
| R232      | 4                | 4  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 4  | 79    |
| R233      | 5                | 5  | 5  | 5  | 5  | 4  | 3  | 4  | 4  | 4  | 110   |
| R234      | 5                | 5  | 5  | 5  | 5  | 5  | 2  | 5  | 3  | 5  | 118   |
| R235      | 5                | 5  | 5  | 5  | 5  | 4  | 3  | 4  | 3  | 3  | 109   |
| R236      | 4                | 5  | 2  | 4  | 4  | 3  | 5  | 3  | 2  | 2  | 86    |
| R237      | 5                | 5  | 4  | 5  | 5  | 4  | 2  | 4  | 4  | 4  | 110   |
| R238      | 4                | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 3  | 3  | 96    |
| R239      | 5                | 5  | 4  | 4  | 4  | 4  | 3  | 4  | 4  | 4  | 100   |

| Responden | Nomor Pertanyaan |    |    |    |    |    |    |    |    |    | Nilai |
|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R240      | 2                | 4  | 4  | 3  | 4  | 4  | 3  | 3  | 3  | 3  | 86    |
| R241      | 4                | 4  | 4  | 4  | 4  | 4  | 4  | 3  | 2  | 2  | 87    |
| R242      | 4                | 4  | 3  | 5  | 4  | 4  | 3  | 4  | 4  | 5  | 104   |
| R243      | 4                | 5  | 1  | 4  | 5  | 4  | 4  | 2  | 1  | 3  | 89    |
| R244      | 4                | 4  | 4  | 5  | 5  | 4  | 2  | 4  | 3  | 3  | 102   |
| R245      | 5                | 5  | 5  | 5  | 5  | 4  | 2  | 5  | 3  | 3  | 97    |
| R246      | 4                | 4  | 4  | 4  | 4  | 4  | 3  | 4  | 4  | 3  | 99    |
| R247      | 4                | 4  | 4  | 4  | 4  | 4  | 2  | 4  | 4  | 3  | 96    |
| R248      | 5                | 5  | 3  | 4  | 4  | 4  | 3  | 4  | 3  | 4  | 91    |
| R249      | 5                | 5  | 5  | 5  | 5  | 5  | 2  | 5  | 4  | 5  | 115   |
| R250      | 5                | 5  | 5  | 4  | 5  | 5  | 2  | 4  | 3  | 3  | 100   |
| R251      | 4                | 4  | 2  | 4  | 4  | 4  | 4  | 4  | 3  | 3  | 84    |
| R252      | 4                | 5  | 4  | 4  | 5  | 3  | 3  | 4  | 3  | 4  | 98    |
| R253      | 4                | 2  | 4  | 4  | 4  | 3  | 3  | 2  | 3  | 3  | 78    |
| R254      | 3                | 2  | 4  | 4  | 3  | 4  | 3  | 3  | 4  | 3  | 84    |
| R255      | 4                | 3  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 4  | 87    |
| R256      | 4                | 1  | 5  | 5  | 4  | 4  | 2  | 4  | 4  | 4  | 74    |
| R257      | 4                | 1  | 5  | 5  | 5  | 4  | 3  | 4  | 4  | 3  | 97    |
| R258      | 4                | 1  | 4  | 5  | 5  | 5  | 4  | 4  | 3  | 3  | 94    |
| R259      | 5                | 1  | 4  | 5  | 4  | 4  | 2  | 4  | 3  | 3  | 79    |
| R260      | 4                | 1  | 5  | 5  | 5  | 5  | 3  | 4  | 4  | 3  | 102   |
| R261      | 3                | 1  | 5  | 5  | 5  | 5  | 1  | 4  | 4  | 4  | 98    |
| R262      | 5                | 1  | 5  | 5  | 5  | 4  | 3  | 4  | 4  | 5  | 105   |
| R263      | 5                | 1  | 5  | 5  | 5  | 4  | 2  | 4  | 3  | 4  | 90    |
| R264      | 4                | 2  | 4  | 3  | 5  | 5  | 1  | 4  | 4  | 4  | 87    |
| R265      | 4                | 2  | 5  | 5  | 4  | 5  | 1  | 5  | 3  | 4  | 75    |
| R266      | 4                | 2  | 4  | 4  | 4  | 4  | 3  | 4  | 4  | 4  | 97    |
| R267      | 5                | 1  | 5  | 5  | 5  | 4  | 1  | 4  | 4  | 3  | 103   |
| R268      | 4                | 1  | 4  | 5  | 4  | 5  | 4  | 4  | 3  | 4  | 104   |
| R269      | 4                | 2  | 5  | 4  | 4  | 4  | 4  | 4  | 4  | 5  | 100   |
| R270      | 4                | 2  | 4  | 4  | 4  | 3  | 2  | 4  | 3  | 3  | 81    |
| R271      | 3                | 2  | 3  | 4  | 4  | 4  | 3  | 4  | 3  | 3  | 85    |
| R272      | 5                | 1  | 5  | 5  | 4  | 5  | 3  | 5  | 5  | 5  | 103   |
| R273      | 4                | 2  | 4  | 4  | 4  | 3  | 2  | 4  | 5  | 4  | 90    |
| R274      | 3                | 1  | 4  | 4  | 3  | 3  | 4  | 3  | 3  | 3  | 83    |
| R275      | 5                | 5  | 5  | 5  | 5  | 3  | 2  | 4  | 4  | 4  | 97    |
| R276      | 5                | 1  | 5  | 5  | 5  | 5  | 4  | 5  | 4  | 4  | 107   |
| R277      | 5                | 1  | 5  | 5  | 5  | 5  | 2  | 4  | 4  | 4  | 104   |
| R278      | 4                | 1  | 5  | 5  | 5  | 4  | 3  | 5  | 3  | 4  | 95    |
| R279      | 4                | 1  | 5  | 4  | 5  | 5  | 4  | 5  | 5  | 5  | 97    |
| R280      | 4                | 2  | 4  | 4  | 4  | 4  | 5  | 5  | 4  | 4  | 95    |
| R281      | 3                | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 76    |
| R282      | 1                | 1  | 5  | 4  | 5  | 4  | 3  | 2  | 4  | 2  | 92    |
| R283      | 3                | 3  | 5  | 3  | 2  | 5  | 1  | 5  | 5  | 4  | 97    |
| R284      | 1                | 1  | 3  | 5  | 3  | 4  | 5  | 2  | 3  | 3  | 93    |
| R285      | 2                | 2  | 4  | 4  | 4  | 4  | 4  | 4  | 3  | 3  | 88    |

| Responden | Nomor Pertanyaan |    |    |    |    |    |    |    |    |    | Nilai |
|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R286      | 2                | 1  | 5  | 5  | 5  | 5  | 4  | 5  | 3  | 3  | 100   |
| R287      | 2                | 2  | 3  | 4  | 4  | 4  | 4  | 4  | 3  | 3  | 84    |
| R288      | 2                | 2  | 3  | 4  | 5  | 5  | 5  | 5  | 5  | 5  | 87    |
| R289      | 3                | 1  | 5  | 5  | 5  | 5  | 5  | 5  | 3  | 3  | 81    |
| R290      | 2                | 2  | 4  | 4  | 4  | 3  | 4  | 4  | 3  | 3  | 97    |
| R291      | 2                | 2  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 3  | 90    |
| R292      | 2                | 2  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 4  | 84    |
| R293      | 2                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 3  | 88    |
| R294      | 1                | 1  | 5  | 4  | 5  | 2  | 1  | 2  | 3  | 3  | 93    |
| R295      | 2                | 1  | 5  | 4  | 4  | 4  | 3  | 4  | 2  | 4  | 88    |
| R296      | 2                | 2  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 4  | 91    |
| R297      | 1                | 1  | 5  | 5  | 5  | 4  | 3  | 4  | 3  | 4  | 95    |
| R298      | 2                | 2  | 4  | 4  | 4  | 4  | 3  | 4  | 4  | 4  | 88    |
| R299      | 2                | 1  | 4  | 4  | 4  | 3  | 3  | 4  | 3  | 3  | 89    |
| R300      | 2                | 2  | 4  | 4  | 4  | 4  | 3  | 3  | 2  | 2  | 85    |
| R301      | 3                | 1  | 4  | 3  | 4  | 4  | 3  | 2  | 2  | 2  | 85    |
| R302      | 1                | 1  | 5  | 4  | 5  | 4  | 3  | 4  | 3  | 3  | 91    |
| R303      | 2                | 2  | 4  | 3  | 4  | 4  | 3  | 3  | 4  | 5  | 87    |
| R304      | 1                | 3  | 4  | 4  | 4  | 4  | 4  | 5  | 4  | 3  | 102   |
| R305      | 2                | 2  | 4  | 3  | 4  | 4  | 3  | 2  | 2  | 4  | 80    |
| R306      | 1                | 1  | 5  | 5  | 5  | 5  | 3  | 4  | 5  | 5  | 98    |
| R307      | 2                | 2  | 3  | 4  | 4  | 4  | 3  | 4  | 4  | 3  | 90    |
| R308      | 2                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 3  | 88    |
| R309      | 3                | 3  | 5  | 5  | 5  | 4  | 3  | 3  | 3  | 4  | 98    |
| R310      | 3                | 1  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 3  | 89    |
| R311      | 2                | 1  | 1  | 3  | 5  | 2  | 2  | 3  | 3  | 3  | 72    |
| R312      | 2                | 2  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 3  | 82    |
| R313      | 1                | 1  | 3  | 5  | 5  | 4  | 2  | 3  | 3  | 3  | 88    |
| R314      | 1                | 1  | 5  | 5  | 4  | 4  | 2  | 4  | 3  | 4  | 94    |
| R315      | 2                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 4  | 2  | 84    |
| R316      | 2                | 2  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 4  | 89    |
| R317      | 4                | 2  | 4  | 4  | 4  | 4  | 4  | 3  | 2  | 2  | 88    |
| R318      | 1                | 1  | 5  | 4  | 4  | 3  | 3  | 5  | 3  | 4  | 95    |
| R319      | 3                | 1  | 2  | 4  | 4  | 4  | 3  | 3  | 3  | 3  | 85    |
| R320      | 1                | 2  | 4  | 4  | 4  | 4  | 3  | 5  | 3  | 3  | 91    |
| R321      | 2                | 2  | 5  | 2  | 2  | 3  | 2  | 2  | 3  | 2  | 82    |
| R322      | 3                | 1  | 5  | 5  | 5  | 5  | 1  | 4  | 3  | 3  | 75    |
| R323      | 2                | 4  | 5  | 5  | 5  | 4  | 2  | 5  | 5  | 5  | 103   |
| R324      | 5                | 1  | 2  | 5  | 5  | 5  | 2  | 4  | 4  | 4  | 102   |
| R325      | 4                | 2  | 4  | 4  | 4  | 4  | 3  | 3  | 3  | 3  | 91    |
| R326      | 3                | 2  | 5  | 1  | 1  | 5  | 2  | 5  | 3  | 3  | 85    |
| R327      | 5                | 1  | 5  | 4  | 5  | 5  | 5  | 4  | 4  | 4  | 88    |
| R328      | 5                | 2  | 1  | 4  | 5  | 3  | 1  | 4  | 3  | 3  | 85    |
| R329      | 4                | 1  | 4  | 4  | 5  | 4  | 3  | 3  | 3  | 3  | 96    |
| R330      | 4                | 2  | 4  | 4  | 4  | 4  | 3  | 3  | 3  | 3  | 92    |
| R331      | 5                | 1  | 3  | 4  | 5  | 5  | 2  | 5  | 3  | 3  | 94    |



| Responden | Nomor Pertanyaan |    |    |    |    |    |    |    |    |    | Nilai |
|-----------|------------------|----|----|----|----|----|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |       |
| R332      | 5                | 1  | 5  | 5  | 5  | 5  | 5  | 5  | 3  | 4  | 106   |
| R333      | 4                | 1  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 4  | 97    |
| R334      | 2                | 4  | 4  | 3  | 4  | 4  | 1  | 3  | 2  | 3  | 80    |
| R335      | 4                | 3  | 3  | 5  | 4  | 5  | 1  | 5  | 5  | 5  | 94    |
| R336      | 5                | 1  | 4  | 4  | 4  | 4  | 4  | 2  | 2  | 2  | 89    |
| R337      | 2                | 3  | 4  | 3  | 4  | 3  | 3  | 3  | 5  | 3  | 92    |
| R338      | 2                | 3  | 4  | 4  | 4  | 5  | 4  | 3  | 1  | 4  | 92    |
| R339      | 1                | 1  | 5  | 5  | 5  | 5  | 4  | 5  | 4  | 4  | 97    |
| R340      | 2                | 1  | 1  | 3  | 4  | 3  | 1  | 5  | 4  | 3  | 87    |
| R341      | 1                | 2  | 4  | 4  | 4  | 4  | 2  | 3  | 3  | 3  | 85    |
| R342      | 5                | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 95    |
| R343      | 2                | 2  | 4  | 3  | 4  | 3  | 3  | 3  | 2  | 3  | 83    |
| R344      | 3                | 1  | 5  | 4  | 4  | 4  | 3  | 3  | 4  | 3  | 92    |
| R345      | 2                | 2  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 3  | 87    |
| R346      | 2                | 2  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 91    |
| R347      | 1                | 2  | 4  | 4  | 4  | 4  | 3  | 3  | 3  | 3  | 92    |
| R348      | 2                | 2  | 4  | 4  | 4  | 3  | 3  | 4  | 3  | 3  | 89    |
| R349      | 2                | 2  | 4  | 3  | 4  | 4  | 3  | 3  | 3  | 4  | 89    |
| R350      | 2                | 1  | 5  | 4  | 4  | 4  | 3  | 4  | 3  | 3  | 97    |
| R351      | 2                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 4  | 86    |
| R352      | 1                | 1  | 3  | 4  | 4  | 3  | 2  | 3  | 4  | 3  | 77    |
| R353      | 3                | 2  | 4  | 4  | 4  | 3  | 3  | 4  | 3  | 3  | 94    |
| R354      | 2                | 3  | 4  | 4  | 4  | 3  | 3  | 4  | 3  | 3  | 85    |
| R355      | 5                | 5  | 5  | 5  | 5  | 5  | 2  | 4  | 3  | 3  | 109   |
| R356      | 3                | 2  | 3  | 4  | 4  | 4  | 3  | 4  | 3  | 3  | 88    |
| R357      | 1                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 3  | 3  | 85    |
| R358      | 3                | 2  | 4  | 4  | 4  | 4  | 3  | 3  | 3  | 2  | 87    |
| R359      | 1                | 2  | 4  | 4  | 5  | 4  | 3  | 3  | 3  | 3  | 91    |
| R360      | 5                | 5  | 4  | 4  | 5  | 3  | 3  | 5  | 4  | 4  | 97    |
| R361      | 2                | 2  | 4  | 4  | 4  | 4  | 2  | 4  | 4  | 4  | 88    |
| R362      | 2                | 1  | 4  | 4  | 4  | 3  | 3  | 4  | 3  | 2  | 94    |
| R363      | 1                | 1  | 5  | 5  | 5  | 5  | 4  | 5  | 3  | 5  | 99    |
| R364      | 2                | 3  | 5  | 3  | 4  | 2  | 3  | 3  | 3  | 4  | 85    |

## Lampiran 27

## KISI-KISI HASIL BELAJAR FISIKA YANG DIGUNAKAN

| Tujuan Pembelajaran                             | Materi   | Indikator Pencapaian Tujuan Pembelajaran  | Proses Kognitif |    |    |       | Nomor Butir | Jumlah Butir |
|---|--|---|-----------------|----|----|-------|-------------|--------------|
|   |  |   | C3              | C4 | C5 | C6    |             |              |
| Menerapkan konsep dan prinsip kinematika gerak. | Pendahuluan Mekanika                                 | 2.1 Menerapkan gerak dalam satu dimensi dengan kecepatan konstan dan percepatan konstan | √               |    |    |       | 1,2,3,4,5   | 5            |
|   | Gerak lurus dan kejadian dalam kehidupan sehari-hari | 2.2 Menentukan besaran-besaran gerak lurus satu dimensi dengan kecepatan tetap          | √               |    |    |       | 6,7         | 2            |
|   | Gerak lurus berubah beraturan                        | 2.3 Menganalisis besaran fisis pada gerak lurus berubah beraturan satu dimensi          |                 | √  |    |       | 8,9,10      | 3            |
|   |  | 24.Membuat persamaan gerak suatu benda pada gerak lurus berubah beraturan               |                 |    |    | √     | 11,12       | 2            |
|   |  | 2.5Merumuskan persamaan gerak   |                 |    | √  | 13,14 | 2           |              |

| Tujuan Pembelajaran        | Materi         | Indikator Pencapaian Tujuan Pembelajaran             | Proses Kognitif |    |    |    | Nomor Butir | Jumlah Butir |
|----------------------------|----------------|--|-----------------|----|----|----|-------------|--------------|
|                            |                |  | C3              | C4 | C5 | C6 |             |              |
|                            | Gerak parabola | suatu benda pada gerak parabola                      |                 |    |    |    |             |              |
|                            |                | 2.6 Menganalisis gerak parabola                      |                 | √  |    |    | 16,18,19    | 3            |
| Gerak Melingkar dan Rotasi |                | 2.7 Menentukan gerak melingkar dengan kelajuan tetap | √               |    |    |    | 21          | 1            |
|                            |                | 2.8 Menganalisis gerak melingkar                     |                 | √  |    |    | 22,25       | 2            |
| Jumlah                     |                |  | 9               | 11 | 3  | 2  |             | 20           |

**Lampiran 28****TES HASIL BELAJAR FISIKA YANG DIGUNAKAN**

Mata Pelajaran : Fisika  
 Kelas :  
 Materi :  
 Waktu Pengerjaan : 90 menit

**Petunjuk Pengerjaan Soal!**

1. Tulis identitas pada lembar jawaban yang telah disediakan.
2. Bacalah seluruh soal dengan cermat, apabila terdapat soal yang kurang jelas tanyakan
3. Kerjakan soal dan pilih jawaban yang tersedia dengan tanda (X)
4. Tidak boleh mencorat-coret dan merubah lembar soal
5. Sebelum anda menyerahkan lembaran ini, periksalah kembali dengan seksama agar tidak ada pernyataan yang terlewat.

**Kerjakan soal berikut dengan jelas ini!!**

1. Seorang sopir sedang mengendarai sebuah mobil yang bergerak dengan kecepatan tetap 25 m/s. Ketika sopir melihat seorang anak yang tiba-tiba menyeberang jalan, diperlukan waktu 0,10 s bagi sopir untuk bereaksi dan mengerem. Akibatnya, mobil melambat dengan percepatan tetap 5,0 m/s<sup>2</sup> dan berhenti. Jarak total yang ditempuh mobil tersebut sejak sopir melihat anak menyeberang hingga mobil berhenti adalah ...

- f. 10 m
- g. 11 m
- h. 37 m
- i. 48 m
- j. 65 m

2. Sebuah balon naik dengan kecepatan 12 m/s. Ketika ketinggian mencapai 80 m di atas tanah, sebuah benda dijatuhkan. Waktu yang dibutuhkan benda tersebut adalah...

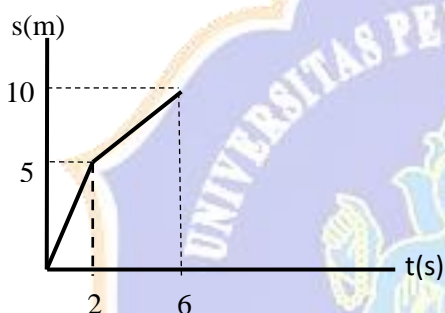
- f. 5,4 s
- g. 7,2 s
- h. 10,3 s

- i. 12,5 s
- j. 16,2 s

3. Seorang anak naik keatas gedung dengan laju konstan sebesar 32 kaki/s. Ketika tingginya mencapai 100 kaki di atas tanah, kemudian ia melemparkan bola ke atas. Laju awal bola adalah 64 kaki/s. Tinggi maksimum yang dapat dicapai oleh bola adalah...

- a. 117 kaki
- b. 129 kaki
- c. 244 kaki
- d. 267 kaki
- e. 300 kaki

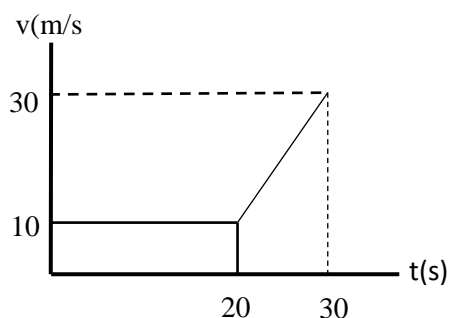
4. Perhatikan grafik di bawah ini!



Pada gambar menyatakan hubungan antara jarak (s) terhadap (t) dari benda yang bergerak. Jika s dalam m, dan t dalam sekon, maka kecepatan rata-rata benda adalah...

- f. 0,60 m/s
- g. 1,67 m/s
- h. 2,50 m/s
- i. 3,0 m/s
- j. 4,2 m/s

5. Gerakan sebuah mobil digambarkan oleh grafik kecepatan terhadap waktu. seperti gambar di bawah ini.



Tentukan besar percepatan mobil jika mobil bergerak makin cepat adalah...

- f.  $0,5 \text{ m/s}^2$
- g.  $1,0 \text{ m/s}^2$
- h.  $1,5 \text{ m/s}^2$
- i.  $2,0 \text{ m/s}^2$
- j.  $6,0 \text{ m/s}^2$

6. Sebuah benda bergerak lurus beraturan dengan kecepatan 72 km/jam. Jika benda tersebut bergerak selama 30 menit, maka jarak yang sudah ditempuh oleh benda adalah...m

- a. 20.000 m
- b. 32.000 m
- c. 36.000 m
- d. 40.000 m
- e. 42.000 m

7. Budi mengendarai sepeda motor dari warung nasi ke pos satpam yang berjarak 50 m, dengan kecepatan tetap. Waktu yang diperlukan budi adalah 10 menit. Maka besar kecepatan sepeda motor yang dikendarai oleh Budi adalah...m/s

- a. 0,083 m/s
- b. 0,183 m/s
- c. 0,283 m/s
- d. 0,383 m/s
- e. 0,483 m/s

8. Tiga benda bergerak lurus berubah beraturan pada bidang datar. Ketiga benda bergerak dengan percepatan yang sama. Besaran-besaran yang dimiliki ketiga benda setelah bergerak selama 10 sekon ditunjukkan pada tabel berikut.

| Benda | $v_0 \text{ (m/s)}$ | $v_t \text{ (m/s)}$ | s(m) |
|-------|---------------------|---------------------|------|
| 1     | 2                   | 22                  | 120  |
| 2     | P                   | 24                  | 140  |
| 3     | 0                   | 20                  | Q    |



Data P dan Q pada tabel tersebut bernilai...

- f. 6 dan 140
- g. 6 dan 120
- h. 4 dan 120
- i. 4 dan 100
- j. 8 dan 120

9. Doni, Budi, dan Cecep berlari dengan kecepatan yang berbeda, dan mempunyai percepatan yang sama. Data gerak ketiga anak tersebut ditunjukkan pada tabel berikut.

| Anak  | $v_0(m/s)$ | $v_t(m/s)$ | s(m) |
|-------|------------|------------|------|
| Doni  | 10         | P          | 200  |
| Budi  | 5          | 25         | 150  |
| Cecep | 5          | 35         | Q    |

Data P dan Q pada tabel tersebut bernilai...

- f. 20 dan 100
- g. 30 dan 200
- h. 30 dan 300
- i. 50 dan 300
- j. 60 dan 400

10. Seorang anak menjatuhkan sebuah batu dari ketinggian 20 m. Satu detik kemudian ia melemparkan sebuah batu lain ke bawah. Anggap tidak ada gesekan udara dan percepatan gravitasi  $10 \text{ m/s}^2$ . Jika kedua batu tersebut mencapai tanah bersamaan, maka kelajuan awal batu kedua adalah..

- a. 5 m/s
- b. 15 m/s
- c. 20 m/s
- d. 35 m/s
- e. 40 m/s

11. Bola X yang jatuh bebas dari ketinggian D bertabrakan dengan bola Y yang dilemparkan ke atas dari tanah dengan kelajuan awal v. Persamaan waktu yang mewakili tabrakan berlangsung adalah...

f.  $t = \sqrt{\frac{D}{2g}}$

$$g. t = \sqrt{\frac{2D}{g}}$$

$$h. t = \frac{2D}{v}$$

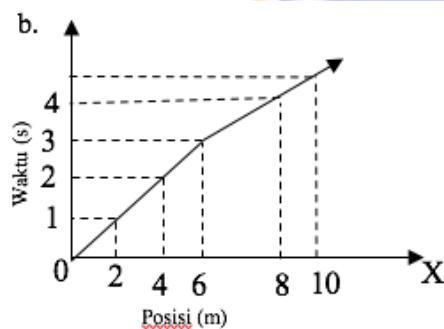
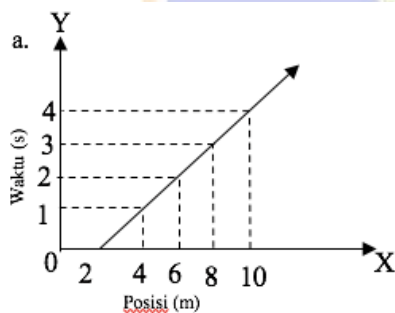
$$i. t = \frac{D}{2v}$$

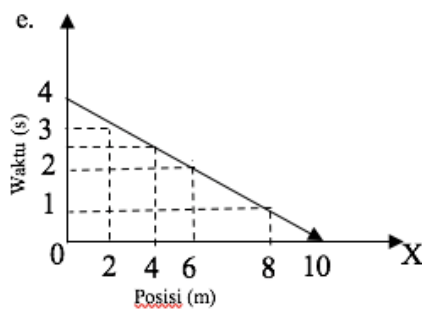
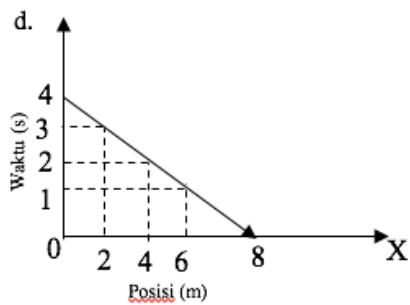
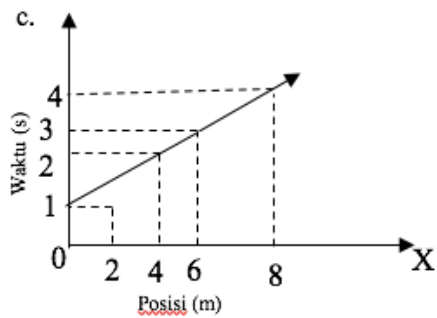
$$j. t = \frac{D}{v}$$

12. Seorang mahasiswa melakukan percobaan gerak lurus dengan mengukur posisi benda pada setiap detiknya. Berikut adalah data yang diperoleh dari percobaan tersebut:

| Waktu (s) | Posisi (m) |
|-----------|------------|
| 0         | 2          |
| 1         | 4          |
| 2         | 6          |
| 3         | 8          |
| 4         | 10         |

Grafik posisi terhadap waktu yang menggambarkan persamaan matematis dari gerak benda tersebut adalah...





13. Sebuah bola bergerak membentuk lintasan parabola. Tinggi maksimum yang dicapai bola adalah  $y$ , dan percepatan gravitasi bola adalah  $g$ . apabila bola bergerak dengan sudut  $53^\circ$  terhadap tanah, kecepatan awal bola adalah...m/s

a.  $\frac{\sqrt{yg}}{0,4}$

b.  $\frac{\sqrt{yg}}{0,8}$

c.  $\frac{\sqrt{yg}}{0,6}$

d.  $\frac{\sqrt{2yg}}{0,8}$

e.  $\frac{\sqrt{2yg}}{0,6}$

14. Bola dilepaskan dari ketinggian  $h$  di atas permukaan tanah. Bersamaan dengan pelepasan bola A, benda B diberi kecepatan vertikal ke atas sebesar  $v$  dari permukaan tanah. Percepatan gravitasi  $g$ . Agar A dan B mencapai tanah pada saat yang sama harus dipenuhi hubungan...

a.  $h = \frac{4v^2}{g}$

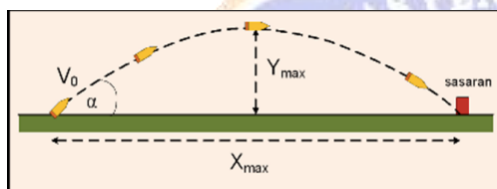
b.  $h = \frac{2v^2}{3g}$

c.  $h = \frac{v^2}{2g}$

d.  $h = \frac{2v^2}{g}$

e.  $h = \frac{2v^2}{2g}$

17. Perhatikan gambar di bawah ini!



Sebuah meriam menembakkan peluru dengan kelajuan awal  $100 \text{ m/s}$  dan sudut elevasi  $37^\circ$ . Jika percepatan gravitasi bumi  $10 \text{ m/s}^2$ ,  $\sin 37^\circ = 3/5$  dan  $\cos 37^\circ = 4/5$ . Jarak mendatar peluru saat  $t = 1$  sekon adalah...

a.  $50 \text{ m}$

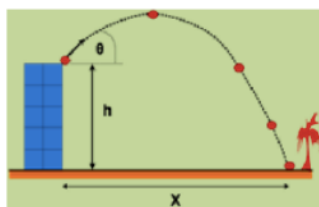
b.  $60 \text{ m}$

c.  $80 \text{ m}$

d.  $100 \text{ m}$

e.  $120 \text{ m}$

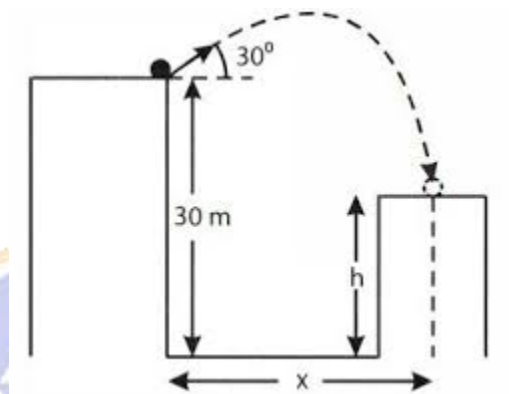
18. Perhatikan gambar di bawah ini!



Sebuah bola dilontarkan dari atap sebuah gedung yang tingginya adalah  $h = 10 \text{ m}$  dengan kelajuan awal  $V_0 = 10 \text{ m/s}$ . Jika percepatan gravitasi bumi adalah  $10 \text{ m/s}^2$ , sudut yang terbentuk antara arah lemparan bola dengan arah horizontal adalah  $60^\circ$  dan gesekan bola dengan udara diabaikan. Waktu yang diperlukan bola untuk menyentuh tanah adalah...

- a. 2 s
- b. 5 s
- c. 10 s
- d. 20 s
- e. 25 s

19. Sebuah batu dilempar dari atas tebing setinggi 30 m dengan kecepatan 20 m/s berarah  $30^\circ$  terhadap horizontal seperti gambar di bawah ini



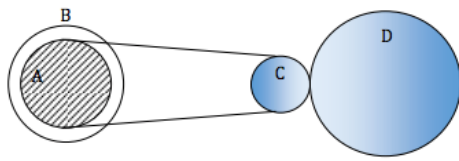
Batu mendarat di tebing lain setinggi  $h$ , setelah 3 s. Jika  $x$  adalah jarak antara posisi melempar dengan posisi mendarat maka perbandingan  $h$  dan  $x$  adalah...

- a.  $1 : 2\sqrt{3}$
- b.  $1:2$
- c.  $2\sqrt{3} : 1$
- d.  $3 : 2\sqrt{3}$
- e.  $5 : 2\sqrt{3}$

21. Dari keadaan diam, benda tegar melakukan gerak rotasi dengan percepatan sudut  $15 \text{ rad/s}^2$ . Titik A berada pada benda tersebut, berjarak 10 cm dari sumbu putar. Tepat setelah benda berotasi selama 0,4 sekon, titik A mengalami percepatan total sebesar...

- a.  $1,5 \text{ m/s}^2$
- b.  $2,1 \text{ m/s}^2$
- c.  $3,6 \text{ m/s}^2$
- d.  $3,9 \text{ m/s}^2$
- e.  $4,1 \text{ m/s}^2$

22. Perhatikan gambar di bawah ini!



Jari-jari roda A = 30 cm, roda B = 40 cm, roda C = 25 cm, dan roda D = 50 cm. Roda B berputar dengan kecepatan anguler 50 rad/s. Kecepatan anguler roda D adalah ...

- A. 80 rad/s
- B. 60 rad/s
- C. 50 rad/s
- D. 40 rad/s
- E. 30 rad/s

25. Sebuah benda bermassa 2 kg berputar dengan kecepatan  $4\pi \text{ rad/s}$ . Jika jari-jari putaran benda adalah 5 meter, maka percepatan sentripetal gerak benda adalah...

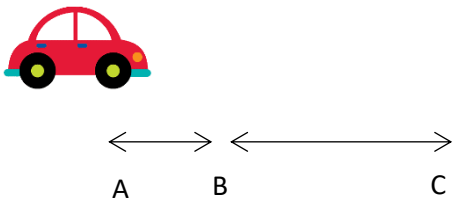
- a.  $42\pi^2 \text{ m/s}^2$
- b.  $68\pi^2 \text{ m/s}^2$
- c.  $80\pi^2 \text{ m/s}^2$
- d.  $90\pi^2 \text{ m/s}^2$
- e.  $98\pi^2 \text{ m/s}^2$



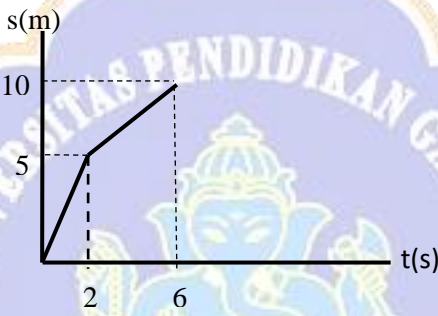


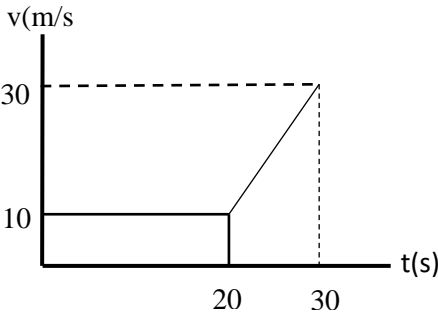
## Lampiran 29

**KUNCI JAWABAN DAN PEMBAHASAN TES PRESTASI  
BELAJAR FISIKA SISWA YANG DIGUNAKAN**

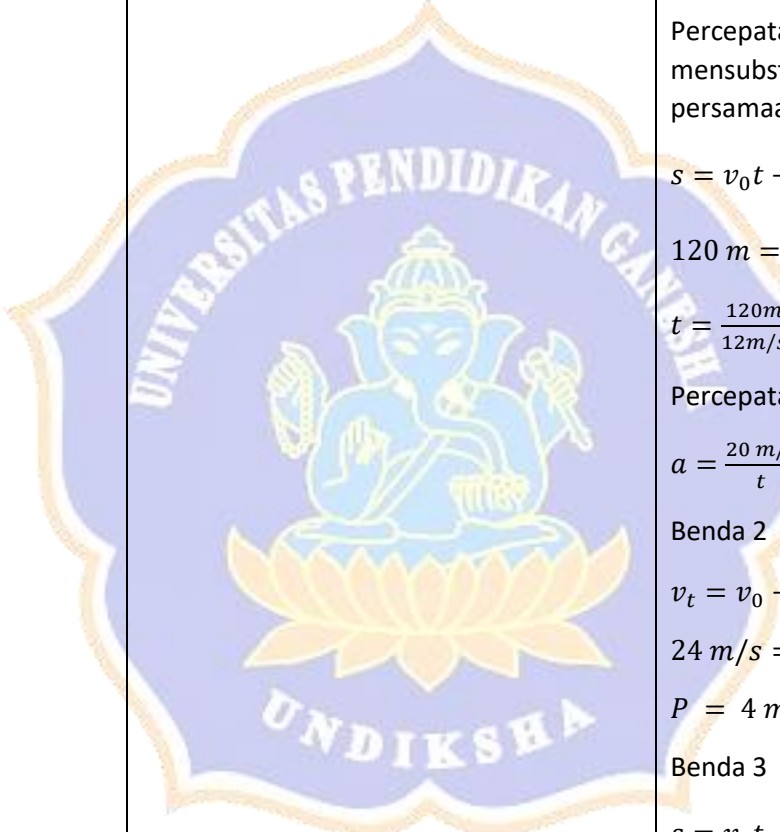
| No | Indikator   | Soal  | Jawaban   |
|----|---|---|---|
| 1  | 2.1 Menerapkan gerak dalam satu dimensi dengan kecepatan konstan dan percepatan konstan | <p>Seorang sopir sedang mengendarai sebuah mobil yang bergerak dengan kecepatan tetap 25 m/s. Ketika sopir melihat seorang anak yang tiba-tiba menyeberang jalan, diperlukan waktu 0,10 s bagi sopir untuk bereaksi dan mengerem. Akibatnya, mobil melambat dengan percepatan tetap 5,0 m/s<sup>2</sup> dan berhenti. Jarak total yang ditempuh mobil tersebut sejak sopir melihat anak menyeberang hingga mobil berhenti adalah ...</p> <p>f. 10 m<br/>g. 11 m<br/>h. 37 m<br/>i. 48 m<br/>j. 65 m</p> | <p>a. 65 m</p> <p>Diketahui:</p>  <p>Sejak mobil melihat anak hanya B-C. Pada posisi A ke B benda bergerak lurus beraturan (kecepatan konstan) jika waktu respon sopir adalah <math>t = 0,1</math> s sehingga:</p> $s_{AB} = v_0 t$ $s_{AB} = 25(0,1) = 2,5 \text{ m}$ <p>Pada posisi B ke C bergerak lurus berubah beraturan dengan perlambatan tetap <math>a = 5 \text{ m/s}^2</math> sehingga:</p> $v_t^2 = v_0^2 - 2as_{BC},$ <p>pada saat berhenti, <math>v_t = 0</math>, maka:</p> $0 = 25^2 - 2(5)s_{BC}$ $s_{BC} = 62,5 \text{ m}$ <p>Jarak total (s) = <math>s_{AB} + s_{BC}</math></p> $s = 2,5 + 62,5 = 65 \text{ m}$ |
| 2  |   | Sebuah balon naik dengan kecepatan 12 m/s. Ketika ketinggian mencapai 80 m di atas tanah, sebuah benda  | a. 5,4 s  |

|   |  |  |   |
|---|--|--|---|
|   |  | <p>dijatuhkan. Waktu yang dibutuhkan benda tersebut adalah...</p> <ol style="list-style-type: none"> <li>5,4 s</li> <li>7,2 s</li> <li>10,3 s</li> <li>12,5 s</li> <li>16,2 s</li> </ol>   | <p>Diketahui :</p> $v_0 = 12 \text{ m/s}$ $x_0 = 80 \text{ m}$ <p>Ditanya :</p> <p>Waktu yang diperlukan untuk menjangkau tanah?</p> <p>Jawab :</p> <p>Pilihlah sumbu positif vertikal ke atas dengan titik asal berada di tanah. Pada saat <math>t = 0</math> benda dijatuhkan dengan kecepatan <math>v_0</math> yang diarahkan ke atas (yakni, <math>v_0 = 12 \text{ m/s}</math>) dari ketinggian <math>x_0 = 80 \text{ m}</math>. Pada saat <math>t = T</math> benda itu mencapai tanah, dari sini didapatkan persamaan:</p> $x = \frac{1}{2}(-9,8)t^2 + 12t + 80 \quad 0 = \frac{1}{2}(-9,8)t^2 + 12t + 80$ $t = 5,4 \text{ s}$ |
| 3 |  | <p>Seorang anak naik keatas gedung dengan laju konstan sebesar 32 kaki/s. Ketika tingginya mencapai 100 kaki di atas tanah, kemudian ia melemparkan bola ke atas. Laju awal bola adalah 64 kaki/s. Tinggi maksimum yang dapat dicapai oleh bola adalah...</p> <ol style="list-style-type: none"> <li>117 kaki</li> <li>129 kaki</li> <li>244 kaki</li> <li>267 kaki</li> <li>300 kaki</li> </ol> | <p>c. 244 kaki</p> <p>Diketahui :</p> $v_{\text{elevator}} = 32 \text{ m/s}$ $h = 100 \text{ kaki}$ $v_{\text{bola}} = 64 \text{ m/s}$ <p>Ditanya:</p> <p>tinggi maksimum yang dapat dicapai oleh bola</p> <p>Jawab:</p> <p>Laju awal bola <math>v</math> relatif terhadap tanah adalah <math>32 \text{ kaki/s} + 64 \text{ kaki/s} = 96 \text{ kaki/s}</math>. Ketinggian <math>x</math> yang dicapai oleh bola di</p>   |

|   |  |  |  |
|---|--|--|--|
|   |  |  | <p>atas elevator (bila dilemparkan) diperoleh dari:</p> $v^2 = 2gx$ $(96)^2 = 2 (32 \text{ kaki/s}^2) x$ $x = 144 \text{ kaki}$ <p>Karena bola dilemparkan dari ketinggian 100 kaki, jadi ketinggian maksimal yang dapat dicapai adalah, 100 kaki+144 kaki = 244 kaki.</p>   |
| 4 |  | <p>Perhatikan grafik di bawah ini!</p>  <p>Pada gambar menyatakan hubungan antara jarak (s) terhadap (t) dari benda yang bergerak. Jika s dalam m, dan t dalam sekon, maka kecepatan rata-rata benda adalah...</p> <p>f. 0,60 m/s<br/>g. 1,67 m/s<br/>h. 2,50 m/s<br/>i. 3,0 m/s<br/>j. 4,2 m/s</p> | <p>b. 1,67 m/s</p> <p>Diketahui:</p> $s_t = 10 \text{ m}$ $s_0 = 0 \text{ m}$ $t = 10 \text{ s}$ $t_0 = 6 \text{ s}$ <p>Ditanyakan:</p> <p>Kecepatan rata-rata (<math>\bar{v}</math>)</p> <p>Dijawab:</p> $(\bar{v}) = \frac{\text{Perpindahan}}{\text{waktu}} = \frac{s_t - s_0}{t - t_0}$ <p>Maka:</p> $(\bar{v}) = \frac{10 - 0}{6 - 0} = \frac{10}{6} = 1,67 \text{ m/s}$ <p>Jadi kecepatan rata-rata benda 1,67 m/s</p> <p>Ok</p> |

|   |  |   |   |
|---|--|---|---|
| 5 |  | <p>Gerakan sebuah mobil digambarkan oleh grafik kecepatan terhadap waktu. seperti gambar di bawah ini.</p>  <p>Tentukan besar percepatan mobil jika mobil bergerak makin cepat adalah...</p> <p>f. <math>0,5 \text{ m/s}^2</math><br/> g. <math>1,0 \text{ m/s}^2</math><br/> h. <math>1,5 \text{ m/s}^2</math><br/> i. <math>2,0 \text{ m/s}^2</math><br/> j. <math>6,0 \text{ m/s}^2</math></p> | <p>d. <math>2,0 \text{ m/s}^2</math></p> <p>Diketahui:</p> <p><math>t_0 = 0</math><br/> <math>v_0 = 0</math><br/> <math>t_1 = 20 \text{ s}</math><br/> <math>v_1 = 10 \text{ m/s}</math><br/> <math>t_2 = 30 \text{ s}</math><br/> <math>v_2 = 30 \text{ m/s}</math></p> <p>Ditanya:</p> <p>Percepatan mobil (<math>a</math>)?</p> <p>Jawab:</p> $a = \frac{v_t - v_0}{t - t_0}$ $a = \frac{30 \text{ m/s} - 10 \text{ m/s}}{30 \text{ s} - 20 \text{ s}}$ $a = \frac{20 \text{ m/s}}{10 \text{ s}} = 2 \text{ m/s}^2$ <p>Jadi, saat mobil bergerak makin cepat mobil mengalami percepatan sebesar <math>2 \text{ m/s}^2</math></p> <p>Ok</p> |
| 6 | 2.2 Menentukan besaran-besaran gerak lurus satu dimensi dengan kecepatan tetap | <p>Sebuah benda bergerak lurus beraturan dengan kecepatan <math>72 \text{ km/jam}</math>. Jika benda tersebut bergerak selama 30 menit, maka jarak yang sudah ditempuh oleh benda adalah...m</p> <p>a. <math>20.000 \text{ m}</math><br/> b. <math>32.000 \text{ m}</math><br/> c. <math>36.000 \text{ m}</math><br/> d. <math>40.000 \text{ m}</math></p>  | <p>c. <math>36.000 \text{ m}</math></p> <p>Penyelesaian:</p> <p>Diketahui : <math>v = 72 \text{ km/jam} = 20 \text{ m/s}</math><br/> <math>t = 30 \text{ menit} = 1.800 \text{ sekon}</math> Ditanyakan : <math>s = \dots ?</math></p> <p>Jawab : <math>s = v \times t</math><br/> <math>= 20 \text{ m/s} \times 1.800 \text{ s} = 36.000 \text{ m}</math></p>  |

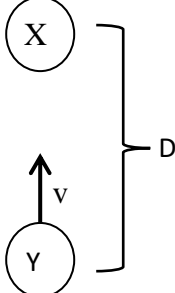
|       |   | e. 42.000 m  |  |            |            |      |   |   |    |     |   |   |    |     |   |   |    |   |  |
|-------|---|--|--|------------|------------|------|---|---|----|-----|---|---|----|-----|---|---|----|---|--|
| 7     |   | <p>Budi mengendarai sepeda motor dari warung nasi ke pos satpam yang berjarak 50 m, dengan kecepatan tetap. Waktu yang diperlukan budi adalah 10 menit. Maka besar kecepatan sepeda motor yang dikendarai oleh Budi adalah...m/s</p> <p>a. 0,083 m/s<br/>b. 0,183 m/s<br/>c. 0,283 m/s<br/>d. 0,383 m/s<br/>e. 0,483 m/s</p>   | <p>a. 0,083 m/s</p> <p>Penyelesaian:</p> <p>Diketahui :</p> <p><math>s = 50 \text{ m}</math></p> <p><math>t = 10 \text{ menit} = 600 \text{ sekon}</math> Ditanyakan :<br/><math>v = \dots ?</math></p> <p>Jawab : <math>v = \frac{s}{t}</math></p> <p><math>v = \frac{50\text{m}}{600\text{s}} = 0,083 \text{ m/s}</math></p> |            |            |      |   |   |    |     |   |   |    |     |   |   |    |   |  |
| 8     | 2.3Menganalisis besaran fisis pada gerak lurus berubah beraturan satu dimensi | <p>Tiga benda bergerak lurus berubah beraturan pada bidang datar. Ketiga benda bergerak dengan percepatan yang sama. Besaran-besaran yang dimiliki ketiga benda setelah bergerak selama 10 sekon ditunjukkan pada tabel berikut.</p> <table border="1"> <thead> <tr> <th>Benda</th> <th><math>v_0(m/s)</math></th> <th><math>v_t(m/s)</math></th> <th>s(m)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>22</td> <td>120</td> </tr> <tr> <td>2</td> <td>P</td> <td>24</td> <td>140</td> </tr> <tr> <td>3</td> <td>0</td> <td>20</td> <td>Q</td> </tr> </tbody> </table> <p>Data P dan Q pada tabel tersebut bernilai...</p> <p>f. 6 dan 140<br/>g. 6 dan 120<br/>h. 4 dan 120<br/>i. 4 dan 100<br/>j. 8 dan 120</p> | Benda  | $v_0(m/s)$ | $v_t(m/s)$ | s(m) | 1 | 2 | 22 | 120 | 2 | P | 24 | 140 | 3 | 0 | 20 | Q | <p>d. 4 dan 100</p> <p>Diketahui:</p> <p><math>t = 10 \text{ s}</math></p> <p>Benda 1</p> <p><math>v_0 = 2 \text{ m/s}</math><br/><math>v_t = 22 \text{ m/s}</math><br/><math>s = 120 \text{ m}</math></p> <p>Benda 2</p> <p><math>v_0 = P</math><br/><math>v_t = 24 \text{ m/s}</math><br/><math>s = 140 \text{ m}</math></p> <p>Benda 3</p> <p><math>v_0 = 0 \text{ m/s}</math><br/><math>v_t = 20 \text{ m/s}</math><br/><math>s = Q</math></p> |
| Benda | $v_0(m/s)$  | $v_t(m/s)$   | s(m)   |            |            |      |   |   |    |     |   |   |    |     |   |   |    |   |  |
| 1     | 2   | 22   | 120  |            |            |      |   |   |    |     |   |   |    |     |   |   |    |   |  |
| 2     | P   | 24   | 140  |            |            |      |   |   |    |     |   |   |    |     |   |   |    |   |  |
| 3     | 0   | 20   | Q  |            |            |      |   |   |    |     |   |   |    |     |   |   |    |   |  |

|  |  |   |   |
|--|--|---|---|
|  |  |  | <p>Ditanya:</p> <p>P dan Q</p> <p>Jawab:</p> <p>Benda 1</p> $v_t = v_0 + at$ $22m/s = 2m/s + at$ $a = \frac{20}{t} m/s \dots(1)$ <p>Percepatan dapat dicari dengan mensubstitusi persamaan (1) pada persamaan jarak tempuh.</p> $s = v_0t + \frac{1}{2}at^2$ $120 m = 2tm/s + \frac{1}{2} \frac{20m/s}{t} t^2$ $t = \frac{120m}{12m/s} = 10 s$ <p>Percepatan benda 1,2,3 sama besar</p> $a = \frac{20 m/s}{t} = \frac{20}{10} = 2 m/s$ <p>Benda 2</p> $v_t = v_0 + at$ $24 m/s = P + (2m/s^2)(10 s)$ $P = 4 m/s$ <p>Benda 3</p> $s = v_0t + \frac{1}{2}at^2$ $Q = 0 + \frac{1}{2}(2m/s^2)(10s)^2$ $Q = 100 m$ |
|--|--|---|---|



| 9     |            | <p>Doni, Budi, dan Cecep berlari dengan kecepatan yang berbeda, dan mempunyai percepatan yang sama. Data gerak ketiga anak tersebut ditunjukkan pada tabel berikut.</p> <table border="1" data-bbox="547 562 1046 808"> <thead> <tr> <th>Anak</th> <th><math>v_0(m/s)</math></th> <th><math>v_t(m/s)</math></th> <th>s(m)</th> </tr> </thead> <tbody> <tr> <td>Doni</td> <td>10</td> <td>P</td> <td>200</td> </tr> <tr> <td>Budi</td> <td>5</td> <td>25</td> <td>150</td> </tr> <tr> <td>Cecep</td> <td>5</td> <td>35</td> <td>Q</td> </tr> </tbody> </table> <p>Data P dan Q pada tabel tersebut bernilai...</p> <p>f. 20 dan 100<br/>g. 30 dan 200<br/>h. 30 dan 300<br/>i. 50 dan 300<br/>j. 60 dan 400</p> | Anak | $v_0(m/s)$ | $v_t(m/s)$ | s(m) | Doni | 10 | P | 200 | Budi | 5 | 25 | 150 | Cecep | 5 | 35 | Q | <p>c. 30 dan 300</p> <p>Diketahui:</p> <p>Doni<br/><math>v_{0A} = 10 \text{ m/s}</math><br/><math>s_A = 200 \text{ m}</math></p> <p>Bundi<br/><math>v_{0B} = 5 \text{ m/s}</math><br/><math>v_{tB} = 25 \text{ m/s}</math><br/><math>s_B = 150 \text{ m}</math></p> <p>Cecep<br/><math>v_{0C} = 5 \text{ m/s}</math><br/><math>v_{tC} = 35 \text{ m/s}</math></p> <p>Ditanya: P dan Q</p> <p>Jawab:</p> <p>Percepatan Doni,budi,Cecep adalah:</p> $v_t^2 = v_0^2 + 2as$ $25^2 = 5^2 + 2a(150)$ $a = 2\text{m/s}^2$ <p>Nilai P:</p> $v_t^2 = v_0^2 + 2as$ $P^2 = 10^2 + 2(2)(200)$ $P = 30 \text{ m/s}$ <p>Nilai Q:</p> |
|-------|------------|--|------|------------|------------|------|------|----|---|-----|------|---|----|-----|-------|---|----|---|--|
| Anak  | $v_0(m/s)$ | $v_t(m/s)$   | s(m) |            |            |      |      |    |   |     |      |   |    |     |       |   |    |   |  |
| Doni  | 10         | P  | 200  |            |            |      |      |    |   |     |      |   |    |     |       |   |    |   |  |
| Budi  | 5          | 25   | 150  |            |            |      |      |    |   |     |      |   |    |     |       |   |    |   |  |
| Cecep | 5          | 35   | Q    |            |            |      |      |    |   |     |      |   |    |     |       |   |    |   |  |

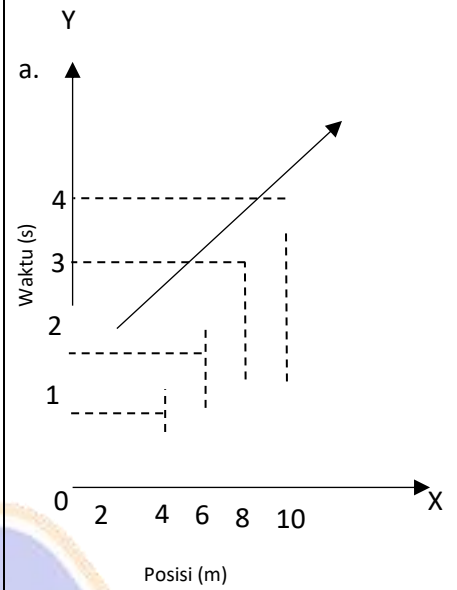
|    |  |   |
|----|--|---|
|    |  | $v_t^2 = v_0^2 + 2as$ $35^2 = 5^2 + 2(2)(Q)$ $Q = 300 \text{ m}$  |
| 10 | <p>Seorang anak menjatuhkan sebuah batu dari ketinggian 20 m. Satu detik kemudian ia melemparkan sebuah batu lain ke bawah. Anggap tidak ada gesekan udara dan percepatan gravitasi <math>10 \text{ m/s}^2</math>. Jika kedua batu tersebut mencapai tanah bersamaan, maka kelajuan awal batu kedua adalah..</p> <p>a. 5 m/s<br/>b. 15 m/s<br/>c. 20 m/s<br/>d. 35 m/s<br/>e. 40 m/s</p> | <p>b. 15 m/s</p> <p>Diketahui:<br/>h = 20 m<br/>g = <math>10 \text{ m/s}^2</math></p> <p>Ditanya :<br/>Kelajuan awal bwatu kedua?</p> <p>Jawab:<br/>Waktu untuk mencapai tanah</p> $t_A = \sqrt{\frac{2h}{g}} = \sqrt{\frac{2(20)}{10}} = 2 \text{ s}$ <p>Jika selisih 1 detik maka waktu B tersisa</p> $t_B = t_A - 1 = 1 \text{ s}$ <p>Benda B bergerak vertikal ke bawah</p> $h_B = h_0 - v_0 t - \frac{1}{2} g t^2$ $0 = 20 - v_0 - 5$ $v_0 = 15 \text{ m/s}$ |

|    |   |   |   |
|----|---|---|---|
| 11 | 2.4Membuat persamaan gerak suatu benda pada gerak lurus berubah beraturan | <p>Bola X yang jatuh bebas dari ketinggian D bertabrakan dengan bola Y yang dilemparkan ke atas dari tanah dengan kelajuan awal <math>v</math>. Persamaan waktu yang mewakili tabrakan berlangsung adalah...</p> <p>f. <math>t = \sqrt{\frac{D}{2g}}</math><br/> g. <math>t = \sqrt{\frac{2D}{g}}</math><br/> h. <math>t = \frac{2D}{v}</math><br/> i. <math>t = \frac{D}{2v}</math><br/> j. <math>t = \frac{D}{v}</math></p> | <p>e. <math>t = \frac{D}{v}</math></p> <p>Diketahui:</p>  <p>Ditanya:</p> <p>Persamaan waktu (t)</p> <p>Jawab:</p> <p>Benda X merupakan gerak jatuh bebas sehingga:</p> $h_x = h_0 - \frac{1}{2}gt^2$ $h_x = D - \frac{1}{2}gt^2$ <p>Benda Y merupakan gerak vertikal ke atas, maka:</p> $h_y = v_0t - \frac{1}{2}gt^2$ $h_y = vt - \frac{1}{2}gt^2$ <p>Dimana <math>h_x = h_y</math>, maka:</p> $D - \frac{1}{2}gt^2 = vt - \frac{1}{2}gt^2$ $D = vt$ $t = \frac{D}{v}$ |
|----|---|---|---|

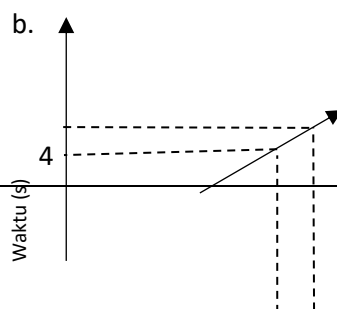
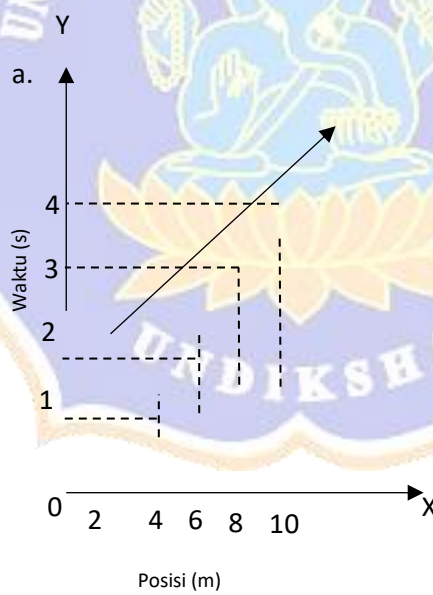
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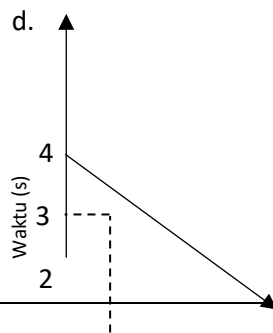
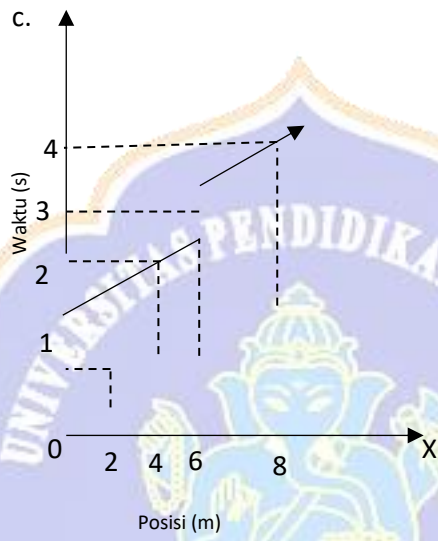
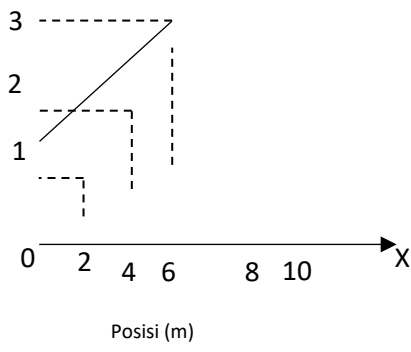
Seorang mahasiswa melakukan percobaan gerak lurus dengan mengukur posisi benda pada setiap detiknya. Berikut adalah data yang diperoleh dari percobaan tersebut:

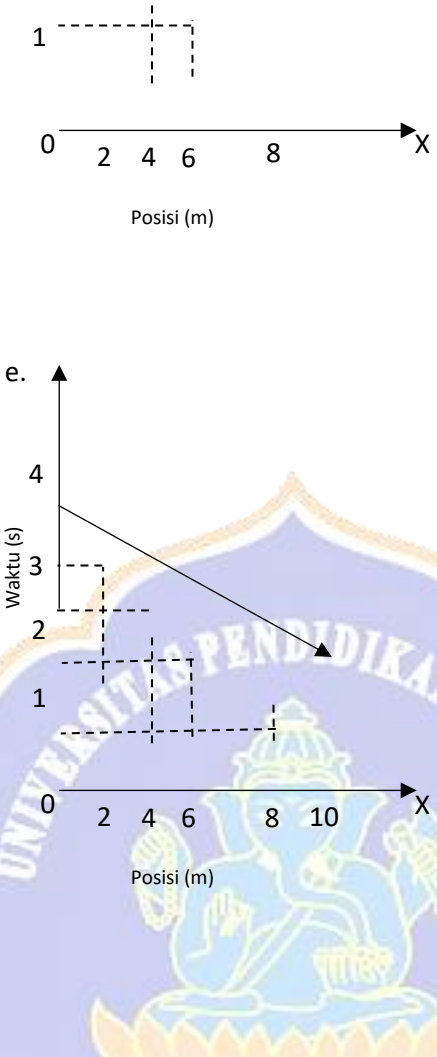
| Waktu (s) | Posisi (m) |
|-----------|------------|
| 0         | 2          |
| 1         | 4          |
| 2         | 6          |
| 3         | 8          |
| 4         | 10         |



Grafik posisi terhadap waktu yang menggambarkan persamaan matematis dari gerak benda tersebut adalah...



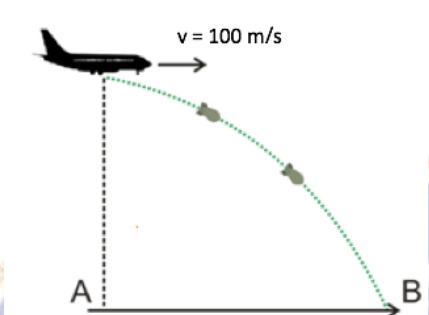


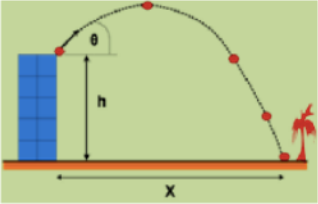
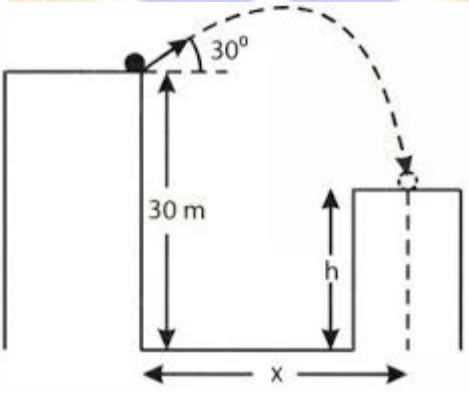
|    |  |   |  |
|----|--|---|--|
|    |  |   |  |
| 13 | 2.5 Merumuskan persamaan gerak suatu benda pada gerak parabola | <p>Sebuah bola bergerak membentuk lintasan parabola. Tinggi maksimum yang dicapai bola adalah <math>y</math>, dan percepatan gravitasi bola adalah <math>g</math>. apabila bola bergerak dengan sudut <math>53^\circ</math> terhadap tanah, kecepatan awal bola adalah...m/s</p> <p>a. <math>\frac{\sqrt{yg}}{0,4}</math></p> <p>b. <math>\frac{\sqrt{yg}}{0,8}</math></p> <p>c. <math>\frac{\sqrt{yg}}{0,6}</math></p> <p>d. <math>\frac{\sqrt{2yg}}{0,8}</math></p> | <p><math>\frac{\sqrt{2yg}}{0,8} \text{ m/s}</math></p> <p>Pembahasan :</p> <p>diketahui :</p> <p>Tinggi maksimum <math>y</math></p> <p>Percepatan gravitasi <math>g</math></p> <p>sudut <math>\theta = 53^\circ</math></p> <p>Ditanya :</p> <p>Kecepatan awal <math>v_0 = ?</math></p> <p>Jawab:</p> |



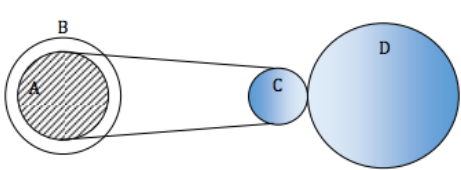
|  |  |                             |  |
|--|--|-----------------------------|--|
|  |  | $e. \frac{\sqrt{2yg}}{0,6}$ | <p>Kecepatan adalah jarak yang ditempuh oleh partikel tiap satuan waktu. Gerak parabola merupakan gerak suatu partikel yang secara serentak melakukan dua gerak lurus (GLB dan GLBB) yang saling tegak lurus. Gerak lurus beraturan terjadi pada sumbu-X dan gerak lurus berubah beraturan terjadi pada sumbu-Y.</p> <p>Dengan mensubstitusikan besaran pada masing-masing gerak, besarnya tinggi maksimum yang ditempuh oleh benda yang mengalami lintasan parabola adalah</p> $y_{maks} = \frac{v_0^2 \sin^2 \theta}{2g}$ $y = \frac{v_0^2 \sin^2 53}{2g}$ $(y)(2g) = v_0^2 \sin^2 53$ $2yg = v_0^2 \sin^2 53$ $\frac{2yg}{\sin 53 \sin 53} = v_0^2$ $\frac{2yg}{(0,8)(0,8)} = v_0^2$ $\frac{2yg}{0,64} = v_0^2$ $\sqrt{\frac{2yg}{0,64}} = v_0$ $\frac{1}{0,8} \sqrt{2yg} = v_0$ $\frac{\sqrt{2yg}}{0,8} = v_0$ <p>jadi, kecepatan awal bola adalah <math>\frac{\sqrt{2yg}}{0,8} m/s</math></p> |
|--|--|-----------------------------|--|

|    |  |  |   |
|----|--|--|---|
| 14 |  | <p>Bola dilepaskan dari ketinggian <math>h</math> di atas permukaan tanah. Bersamaan dengan pelepasan bola A, benda B diberi kecepatan vertikal ke atas sebesar <math>v</math> dari permukaan tanah. Percepatan gravitasi <math>g</math>. Agar A dan B mencapai tanah pada saat yang sama harus dipenuhi hubungan...</p> <p>a. <math>h = \frac{4v^2}{g}</math></p> <p>b. <math>h = \frac{2v^2}{3g}</math></p> <p>c. <math>h = \frac{v^2}{2g}</math></p> <p>d. <math>h = \frac{2v^2}{g}</math></p> <p>e. <math>h = \frac{2v^2}{2g}</math></p> | <p>d. <math>h = \frac{2v^2}{g}</math></p> <p>Diketahui :</p> <p><math>v_{0A} = 0</math></p> <p><math>h_A = h</math></p> <p><math>v_{0B} = v</math></p> <p>Ditanyakan : <math>h</math>?</p> <p>Jawab</p> <p>Waktu yang digunakan bola A untuk sampai ke tanah sama dengan waktu yang digunakan bola B untuk bergerak ke atas kemudian kembali turun ke tanah,</p> <p><math>h_A = v_{0A}t + \frac{1}{2}gt^2</math></p> <p><math>h = v_{0A}t + \frac{1}{2}gt^2</math></p> <p><math>h = 0 + \frac{1}{2}gt^2 \dots</math> (Persamaan 1)</p> <p>Waktu yang diperlukan untuk bola B sampai dipuncak (menempuh <math>h_B</math>)</p> <p><math>h_B = v_{0B}t - \frac{1}{2}gt^2</math></p> <p><math>h_{B1} = v t - \frac{1}{2}gt^2</math> (<math>h_{B1} = h_{B2}</math>)</p> <p><math>h_{B2} = 0 + \frac{1}{2}gt^2</math></p> <p><math>h_{B1} = h_{B2}</math></p> <p><math>v t - \frac{1}{2}gt^2 = \frac{1}{2}gt^2</math></p> <p><math>vt = gt^2</math></p> <p><math>t = v/g</math></p> <p>waktu yang diperlukan bola B untuk kembali ke tanah sebesar <math>t = 2v/g</math></p> <p>masukan nilai <math>t</math> pada persamaan 1. Sehingga</p> |
|----|--|--|---|

|    |                                 |   |   |
|----|---------------------------------|---|---|
|    |                                 |   | $h = \frac{1}{2}gt^2$ $h = \frac{1}{2}g\left(\frac{2v}{g}\right)^2$ $h = 2\frac{v^2}{g}$  |
| 16 | 2.6 Menganalisis gerak parabola | <p>Perhatikan gambar di bawah ini!</p>  <p>Sebuah pesawat terbang bergerak mendarat dengan kecepatan 100 m/s melepaskan bantuan dari ketinggian 500 m. Jika bantuan jatuh di B dan <math>g = 10 \text{ m/s}^2</math>. Jarak AB adalah...</p> <p>a. 500 m<br/>b. 1000 m<br/>c. 2000 m<br/>d. 3000 m<br/>e. 4000 m</p> | <p>b. 1000 m</p> <p>Diketahui :</p> <p><math>v_{ab} = 100 \text{ m/s}</math><br/> <math>h = 500 \text{ m}</math><br/> <math>g = 10 \text{ m/s}^2</math></p> <p>Ditanya:<br/> <math>x_{ab}</math>?</p> <p>Jawab:</p> $t = \sqrt{\frac{2h}{g}}$ $t = \sqrt{\frac{2(500)}{10}}$ $t = 10 \text{ s}$ <p>Selanjutnya,</p> $x_{ab} = v_{ab} \times t$ $x_{ab} = 100 \times 10$ $x_{ab} = 1000 \text{ m}$ |
| 18 |                                 | Perhatikan gambar di bawah ini!   | <p>Diketahui :</p> <p><math>h = 10 \text{ m}</math></p>   |

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|----|--|---|--|
|    |  |  <p>Sebuah bola dilontarkan dari atap sebuah gedung yang tingginya adalah <math>h = 10 \text{ m}</math> dengan kelajuan awal <math>V_0 = 10 \text{ m/s}</math>. Jika percepatan gravitasi bumi adalah <math>10 \text{ m/s}^2</math>, sudut yang terbentuk antara arah lemparan bola dengan arah horizontal adalah <math>60^\circ</math> dan gesekan bola dengan udara diabaikan. Waktu yang diperlukan bola untuk menyentuh tanah adalah...</p> <p>a. 2 s<br/>b. 5 s<br/>c. 10 s<br/>d. 20 s<br/>e. 25 s</p> | <p><math>v_0 = 10 \text{ m/s}</math><br/><math>g = 10 \text{ m/s}^2</math><br/><math>\theta = 37^\circ</math></p> <p>Ditanya :</p> <p>Jarak maksimum yang dicapai bola secara horisontal</p> <p>Penyelesaian :</p> <p>Waktu yang diperlukan bola untuk menyentuh tanah ketinggian gedung <math>h</math> atau sama dengan <math>Y</math> disini, sehingga:</p> $y = v_0 \cdot \sin \theta \cdot t - \frac{1}{2} \cdot g \cdot t^2$ $-10 = 10 \cdot \frac{1}{2} \cdot t - \frac{1}{2} \cdot 10 \cdot t^2$ $5t^2 - 5t - 10 = 0$ $t^2 - t - 2 = 0$ $(t - 2)(t + 1) = 0$ $t = 2 \text{ s}$ <p>ambil nilai positif sehingga <math>t = 2 \text{ s}</math></p> |
| 19 |  | <p>Sebuah batu dilempar dari atas tebing setinggi <math>30 \text{ m}</math> dengan kecepatan <math>20 \text{ m/s}</math> berarah <math>30^\circ</math> terhadap horizontal seperti gambar di bawah ini</p>  <p>Batu mendarat di tebing lain setinggi <math>h</math>, setelah 3 s. Jika <math>x</math> adalah jarak antara posisi</p>  | <p>a. <math>1 : 2\sqrt{3}</math></p> <p>Diketahui:</p> <p><math>h_0 = 30 \text{ m}</math><br/><math>v_0 = 20 \text{ m/s}</math><br/><math>\theta = 30^\circ</math><br/><math>t = 3 \text{ s}</math></p> <p>Ditanya :</p> <p>Perbandingan <math>h</math> dan <math>x</math></p> <p>Jawab:</p> $h = h_0 - v_{0y}t - \frac{1}{2}gt^2$   |

|    |  |  |  |
|----|--|--|--|
|    |  | <p>melempar dengan posisi mendarat maka perbandingan h dan x adalah...</p> <p>a. <math>1 : 2\sqrt{3}</math></p> <p>b. <math>1:2</math></p> <p>c. <math>2\sqrt{3} : 1</math></p> <p>d. <math>3 : 2\sqrt{3}</math></p> <p>e. <math>5 : 2\sqrt{3}</math></p>  | $h = 30 - 20 \sin 30^\circ (3) - \frac{1}{2} (10)(3)^2$ $h = 15 \text{ m}$ <p>Sedangkan nilai x adalah:</p> $x = v_0 x \cdot t$ $x = 20 \cdot \cos 30^\circ \cdot 3$ $x = 30\sqrt{3}$ <p>Sehingga :</p> $h : x$ <p>Maka :</p> $15 : 30\sqrt{3} = 1 : 2\sqrt{3}$  |
| 21 | 2.7 Menentukan gerak melingkar dengan kelajuan tetap | <p>Dari keadaan diam, benda tegar melakukan gerak rotasi dengan percepatan sudut <math>15 \text{ rad/s}^2</math>. Titik A berada pada benda tersebut, berjarak 10 cm dari sumbu putar. Tepat setelah benda berotasi selama 0,4 sekon, titik A mengalami percepatan total sebesar...</p> <p>a. <math>1,5 \text{ m/s}^2</math></p> <p>b. <math>2,1 \text{ m/s}^2</math></p> <p>c. <math>3,6 \text{ m/s}^2</math></p> <p>d. <math>3,9 \text{ m/s}^2</math></p> <p>e. <math>4,1 \text{ m/s}^2</math></p> | <p>d. <math>3,9 \text{ m/s}^2</math></p> <p>Diketahui :</p> $\alpha = 15 \text{ rad/s}^2$ $R = 10 \text{ cm}$ $T = 0,4 \text{ s}$ <p>Ditanya:</p> <p>Percepatan total?</p> <p>Jawab:</p> $a_{total} = \sqrt{a_{linier}^2 + a_{sp}^2}$ <p>Dimana</p> $a_{linier} = \alpha R = 15(0,1) = 1,5 \text{ m/s}^2$ <p>Jika</p> $\omega_t = \omega_0 + \alpha t = 0 + 15 (0,4) = 6 \text{ rad/s}$ <p>Maka</p> $v = \omega R = 6 (0,1) = 0,6 \text{ m/s}$ |

|    |                                  |  |  |
|----|----------------------------------|--|--|
|    |                                  |  | $a. sp = \frac{v^2}{R} = \frac{(0,6)^2}{0,1} = 3,6 m/s^2$ <p>Sehingga</p> $a_{total} = \sqrt{1,5^2 + 3,6^2}$ $a_{total} = 3,9m/s^2$  |
| 22 | 2.8 Menganalisis gerak melingkar | <p>Perhatikan gambar di bawah ini!</p>  <p>Jari-jari roda A = 30 cm, roda B = 40 cm, roda C = 25 cm, dan roda D = 50 cm. Roda B berputar dengan kecepatan anguler 50 rad/s. Kecepatan anguler roda D adalah ...</p> <p>A. 80 rad/s<br/>B. 60 rad/s<br/>C. 50 rad/s<br/>D. 40 rad/s<br/>E. 30 rad/s</p> | <p>D. 40 rad/s</p> <p>Diketahui :</p> $R_A = 30 \text{ cm}$<br>$R_B = 40 \text{ cm}$<br>$R_C = 25 \text{ cm}$<br>$R_D = 50 \text{ cm}$<br>$\omega_B = 50 \text{ rad/s}$ <p>Ditanya:<br/>Kecepatan angular roda D?</p> <p>Jawab:</p> <p>Roda B dan C terhubung dengan tali maka:</p> $v_B = v_C$ $\omega_B R_b = \omega_C R_C$ $\omega_C = \frac{\omega_B R_b}{R_C} = \frac{50 \cdot 40}{25} = 80 \text{ rad/s}$ <p>Roda C dan D bersinggungan, maka:</p> $v_C = v_D$ $\omega_C R_C = \omega_D R_D$ $\omega_D = \frac{\omega_C R_C}{R_D} = \frac{80 \cdot 25}{50} = 40 \text{ rad/s}$ |



|    |  |  |   |
|----|--|--|---|
| 25 |  | <p>Sebuah benda bermassa 2 kg berputar dengan kecepatan <math>4\pi \text{ rad/s}</math>. Jika jari-jari putaran benda adalah 5 meter, maka percepatan sentripetal gerak benda adalah...</p> <p>a. <math>42\pi^2 \text{ m/s}^2</math><br/>b. <math>68\pi^2 \text{ m/s}^2</math><br/>c. <math>80\pi^2 \text{ m/s}^2</math><br/>d. <math>90\pi^2 \text{ m/s}^2</math><br/>e. <math>98\pi^2 \text{ m/s}^2</math></p> | <p>c. <math>80\pi^2 \text{ m/s}^2</math><br/>Diketahui :<br/><math>\omega = 4\pi \text{ rad/s}</math> <math>r = 5 \text{ m}</math> <math>m = 2 \text{ kg}</math><br/>Ditanya : Percepatan sentripetal (a.sp)?<br/>Jawab:<br/><math>a.\text{sp} = \omega^2 r</math><br/><math>a.\text{sp} = (4\pi)^2 (5)</math><br/><math>a.\text{sp} = 80\pi^2 \text{ m/s}^2</math></p> |
|----|--|--|---|



## Lampiran 30

**DATA TES HASIL BELAJAR FISIKA SISWA KELAS XI MIPA SMA  
NEGERI DI KOTA SINGARAJA**

| Responden | Nomor Pertanyaan |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|           | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| R1        | 0                | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R2        | 1                | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R3        | 1                | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1  | 0  | 1  | 1  | 1  | 1  |
| R4        | 1                | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R5        | 1                | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 0  | 0  | 1  | 1  |
| R6        | 0                | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1  | 1  | 0  | 1  | 0  | 1  |
| R7        | 0                | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R8        | 1                | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R9        | 1                | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R10       | 1                | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1  | 1  | 1  | 1  | 1  | 1  |
| R11       | 0                | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R12       | 1                | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 1  | 1  | 1  |
| R13       | 0                | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R14       | 0                | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1  | 1  | 0  | 0  | 0  | 0  |
| R15       | 0                | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1  | 0  | 0  | 0  | 0  | 0  |
| R16       | 0                | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R17       | 1                | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1  | 0  | 1  | 1  | 0  | 1  |
| R18       | 1                | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R19       | 0                | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0  | 0  | 0  | 1  | 1  | 1  |
| R20       | 0                | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R21       | 1                | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1  | 1  | 0  | 0  | 0  | 0  |
| R22       | 0                | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0  | 1  | 1  | 1  | 1  | 1  |
| R23       | 0                | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1  | 1  | 1  | 1  | 1  | 1  |
| R24       | 1                | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1  | 1  | 0  | 1  | 1  | 0  |
| R25       | 1                | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  |
| R26       | 0                | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1  | 1  | 0  | 1  | 0  | 0  |



|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R59 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| R60 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R61 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 |
| R62 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R63 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| R64 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| R65 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R66 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| R67 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R68 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 |
| R69 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R70 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| R71 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| R72 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| R73 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| R74 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 |
| R75 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| R76 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| R77 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 |
| R78 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| R79 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| R80 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| R81 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R82 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R83 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R84 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| R85 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| R87 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| R88 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| R89 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R90 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 |

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R91  | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| R92  | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R93  | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R94  | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R95  | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| R96  | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R97  | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R98  | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| R99  | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| R100 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| R101 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| R102 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 |
| R103 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| R104 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| R105 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R106 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R107 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| R108 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| R109 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| R110 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| R111 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| R112 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| R113 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| R114 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| R115 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| R116 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R117 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 |
| R118 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R119 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| R120 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| R121 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| R122 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R123 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R124 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| R125 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| R126 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| R127 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| R128 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R129 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R130 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R131 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R132 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| R133 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| R134 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| R135 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| R136 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| R137 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| R138 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R139 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| R140 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 |
| R141 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| R142 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| R143 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| R144 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R145 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| R146 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| R147 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R148 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| R149 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| R150 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| R151 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R152 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| R153 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| R154 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |



|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R155 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| R156 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| R157 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R158 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| R159 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| R160 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |
| R161 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| R162 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| R163 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| R164 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| R165 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| R166 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| R167 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| R168 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| R169 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |
| R170 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| R171 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| R172 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| R173 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| R174 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| R175 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| R176 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| R177 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| R178 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| R179 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| R180 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R181 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| R182 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R183 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| R184 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| R185 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R186 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R187 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R188 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| R189 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| R190 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| R191 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| R192 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| R193 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R194 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| R195 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| R196 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| R197 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R198 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R199 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |
| R200 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R201 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R202 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R203 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| R204 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| R205 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |
| R206 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| R207 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R208 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R209 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R210 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R211 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| R212 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R213 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R214 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| R215 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| R216 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| R217 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| R218 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R219 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| R220 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| R221 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| R222 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| R223 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R224 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| R225 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R226 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| R227 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R228 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| R229 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| R230 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 |
| R231 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R232 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| R233 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| R234 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 |
| R235 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| R236 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| R237 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R238 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| R239 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| R240 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| R241 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R242 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| R243 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| R244 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R245 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| R246 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R247 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R248 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| R249 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R250 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R251 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| R252 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| R253 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R254 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| R255 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| R256 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| R257 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R258 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| R259 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| R260 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R261 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| R262 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| R263 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| R264 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| R265 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R266 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| R267 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| R268 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| R269 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| R270 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R271 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R272 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R273 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R274 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| R275 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| R276 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| R277 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| R278 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R279 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| R280 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| R281 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R282 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |







|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R347 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
| R348 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| R349 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| R350 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| R351 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R352 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| R353 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| R354 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| R355 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R356 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R357 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| R358 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R359 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R360 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| R361 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| R362 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 |
| R363 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| R364 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Responden | Nomor Pertanyaan |    |    |    |    | Nilai |
|-----------|------------------|----|----|----|----|-------|
|           | 16               | 17 | 18 | 19 | 20 |       |
| R1        | 1                | 1  | 1  | 1  | 1  | 14    |
| R2        | 1                | 1  | 1  | 1  | 1  | 20    |
| R3        | 1                | 1  | 1  | 1  | 1  | 15    |
| R4        | 1                | 1  | 1  | 0  | 0  | 18    |
| R5        | 1                | 1  | 1  | 1  | 1  | 18    |
| R6        | 1                | 0  | 1  | 1  | 1  | 14    |
| R7        | 1                | 1  | 1  | 1  | 1  | 18    |
| R8        | 1                | 1  | 1  | 1  | 1  | 19    |
| R9        | 1                | 1  | 1  | 1  | 1  | 20    |
| R10       | 1                | 1  | 1  | 1  | 1  | 18    |
| R11       | 1                | 1  | 1  | 1  | 1  | 18    |

|     |   |   |   |   |   |    |
|-----|---|---|---|---|---|----|
| R12 | 1 | 1 | 1 | 1 | 1 | 11 |
| R13 | 1 | 1 | 1 | 1 | 1 | 19 |
| R14 | 1 | 1 | 1 | 1 | 1 | 12 |
| R15 | 0 | 0 | 0 | 0 | 0 | 6  |
| R16 | 1 | 1 | 1 | 1 | 1 | 19 |
| R17 | 0 | 1 | 1 | 1 | 1 | 13 |
| R18 | 1 | 1 | 1 | 1 | 1 | 20 |
| R19 | 0 | 0 | 0 | 0 | 0 | 7  |
| R20 | 1 | 1 | 1 | 0 | 0 | 12 |
| R21 | 0 | 0 | 0 | 0 | 0 | 9  |
| R22 | 1 | 1 | 1 | 1 | 1 | 13 |
| R23 | 1 | 1 | 1 | 1 | 1 | 12 |
| R24 | 0 | 1 | 1 | 0 | 0 | 11 |
| R25 | 1 | 1 | 1 | 1 | 1 | 17 |
| R26 | 1 | 1 | 0 | 1 | 1 | 13 |
| R27 | 1 | 0 | 1 | 1 | 1 | 13 |
| R28 | 0 | 1 | 1 | 0 | 1 | 11 |
| R29 | 1 | 1 | 1 | 1 | 1 | 20 |
| R30 | 0 | 0 | 0 | 1 | 1 | 9  |
| R31 | 1 | 1 | 1 | 1 | 1 | 14 |
| R32 | 1 | 1 | 1 | 1 | 1 | 11 |
| R33 | 1 | 1 | 1 | 1 | 1 | 13 |
| R34 | 0 | 0 | 1 | 1 | 1 | 10 |
| R35 | 1 | 1 | 1 | 1 | 1 | 17 |
| R36 | 0 | 0 | 0 | 0 | 1 | 12 |
| R37 | 0 | 0 | 0 | 1 | 1 | 11 |
| R38 | 0 | 1 | 0 | 0 | 0 | 9  |
| R39 | 0 | 0 | 0 | 0 | 0 | 7  |
| R40 | 1 | 0 | 1 | 0 | 1 | 10 |
| R41 | 1 | 1 | 1 | 0 | 0 | 11 |
| R42 | 1 | 1 | 1 | 1 | 1 | 18 |
| R43 | 0 | 1 | 0 | 0 | 0 | 7  |

|     |   |   |   |   |   |    |
|-----|---|---|---|---|---|----|
| R44 | 1 | 1 | 1 | 1 | 1 | 16 |
| R45 | 0 | 0 | 0 | 0 | 0 | 9  |
| R46 | 1 | 1 | 1 | 1 | 1 | 18 |
| R47 | 1 | 1 | 1 | 1 | 1 | 16 |
| R48 | 1 | 1 | 1 | 1 | 1 | 14 |
| R49 | 1 | 1 | 0 | 1 | 1 | 11 |
| R50 | 1 | 1 | 1 | 1 | 1 | 15 |
| R51 | 1 | 0 | 1 | 0 | 1 | 10 |
| R52 | 1 | 1 | 1 | 1 | 1 | 13 |
| R53 | 1 | 1 | 0 | 1 | 1 | 9  |
| R54 | 1 | 1 | 1 | 1 | 1 | 18 |
| R55 | 0 | 1 | 0 | 0 | 1 | 7  |
| R56 | 1 | 1 | 1 | 1 | 1 | 12 |
| R57 | 1 | 1 | 1 | 1 | 1 | 16 |
| R58 | 1 | 1 | 1 | 1 | 1 | 16 |
| R59 | 0 | 1 | 1 | 1 | 1 | 11 |
| R60 | 1 | 1 | 1 | 1 | 1 | 19 |
| R61 | 1 | 1 | 1 | 1 | 1 | 14 |
| R62 | 1 | 1 | 1 | 1 | 1 | 17 |
| R63 | 1 | 1 | 1 | 1 | 1 | 13 |
| R64 | 1 | 1 | 1 | 1 | 1 | 11 |
| R65 | 1 | 1 | 1 | 1 | 1 | 16 |
| R66 | 1 | 1 | 1 | 1 | 1 | 14 |
| R67 | 1 | 1 | 1 | 1 | 1 | 16 |
| R68 | 1 | 1 | 1 | 1 | 1 | 14 |
| R69 | 0 | 1 | 1 | 1 | 1 | 14 |
| R70 | 0 | 1 | 1 | 1 | 1 | 9  |
| R71 | 0 | 0 | 0 | 1 | 1 | 10 |
| R72 | 1 | 1 | 1 | 1 | 1 | 14 |
| R73 | 0 | 1 | 1 | 1 | 1 | 13 |
| R74 | 0 | 1 | 1 | 0 | 0 | 9  |
| R75 | 1 | 1 | 1 | 1 | 1 | 12 |

|      |   |   |   |   |   |    |
|------|---|---|---|---|---|----|
| R76  | 1 | 0 | 0 | 0 | 0 | 9  |
| R77  | 0 | 0 | 0 | 0 | 0 | 8  |
| R78  | 1 | 1 | 1 | 1 | 1 | 13 |
| R79  | 1 | 0 | 0 | 0 | 0 | 9  |
| R80  | 1 | 1 | 1 | 0 | 1 | 12 |
| R81  | 1 | 1 | 1 | 1 | 1 | 16 |
| R82  | 0 | 1 | 0 | 1 | 0 | 8  |
| R83  | 1 | 1 | 0 | 1 | 0 | 15 |
| R84  | 0 | 1 | 1 | 0 | 1 | 13 |
| R85  | 1 | 1 | 1 | 1 | 1 | 17 |
| R86  | 1 | 1 | 1 | 1 | 1 | 11 |
| R87  | 0 | 0 | 1 | 1 | 1 | 11 |
| R88  | 1 | 1 | 0 | 0 | 0 | 12 |
| R89  | 1 | 1 | 1 | 1 | 1 | 17 |
| R90  | 1 | 1 | 1 | 1 | 1 | 13 |
| R91  | 1 | 1 | 1 | 1 | 1 | 14 |
| R92  | 0 | 1 | 0 | 1 | 0 | 6  |
| R93  | 1 | 1 | 1 | 1 | 1 | 17 |
| R94  | 1 | 1 | 1 | 1 | 1 | 15 |
| R95  | 1 | 1 | 1 | 1 | 1 | 13 |
| R96  | 1 | 1 | 1 | 1 | 1 | 17 |
| R97  | 1 | 0 | 1 | 0 | 0 | 12 |
| R98  | 1 | 1 | 1 | 1 | 1 | 15 |
| R99  | 0 | 1 | 0 | 1 | 1 | 12 |
| R100 | 0 | 0 | 1 | 1 | 1 | 10 |
| R101 | 1 | 1 | 1 | 1 | 1 | 12 |
| R102 | 1 | 1 | 1 | 1 | 1 | 14 |
| R103 | 1 | 1 | 1 | 1 | 1 | 14 |
| R104 | 0 | 0 | 1 | 0 | 1 | 5  |
| R105 | 1 | 1 | 1 | 1 | 1 | 19 |
| R106 | 1 | 1 | 1 | 1 | 1 | 16 |
| R107 | 0 | 1 | 1 | 1 | 1 | 12 |

|      |   |   |   |   |   |    |
|------|---|---|---|---|---|----|
| R108 | 1 | 0 | 1 | 1 | 1 | 14 |
| R109 | 1 | 1 | 1 | 1 | 1 | 13 |
| R110 | 1 | 0 | 1 | 1 | 1 | 11 |
| R111 | 0 | 0 | 1 | 1 | 1 | 9  |
| R112 | 1 | 1 | 1 | 1 | 1 | 8  |
| R113 | 1 | 1 | 1 | 1 | 0 | 10 |
| R114 | 0 | 0 | 0 | 0 | 0 | 8  |
| R115 | 1 | 1 | 1 | 1 | 1 | 14 |
| R116 | 0 | 1 | 1 | 1 | 1 | 13 |
| R117 | 0 | 1 | 0 | 0 | 0 | 10 |
| R118 | 1 | 1 | 1 | 1 | 1 | 15 |
| R119 | 0 | 1 | 1 | 1 | 1 | 11 |
| R120 | 1 | 1 | 1 | 1 | 1 | 9  |
| R121 | 1 | 0 | 0 | 1 | 1 | 10 |
| R122 | 0 | 0 | 1 | 1 | 1 | 11 |
| R123 | 1 | 1 | 1 | 1 | 1 | 10 |
| R124 | 1 | 1 | 0 | 0 | 1 | 12 |
| R125 | 1 | 1 | 1 | 1 | 1 | 16 |
| R126 | 1 | 1 | 1 | 1 | 1 | 13 |
| R127 | 1 | 1 | 1 | 1 | 1 | 14 |
| R128 | 1 | 1 | 1 | 1 | 1 | 16 |
| R129 | 1 | 1 | 1 | 1 | 1 | 15 |
| R130 | 1 | 1 | 1 | 1 | 1 | 19 |
| R131 | 1 | 1 | 1 | 1 | 1 | 17 |
| R132 | 0 | 1 | 1 | 1 | 1 | 11 |
| R133 | 1 | 1 | 1 | 1 | 1 | 13 |
| R134 | 1 | 1 | 1 | 1 | 1 | 14 |
| R135 | 1 | 1 | 1 | 1 | 1 | 15 |
| R136 | 0 | 0 | 0 | 0 | 0 | 11 |
| R137 | 0 | 1 | 1 | 0 | 0 | 6  |
| R138 | 1 | 1 | 1 | 1 | 1 | 7  |
| R139 | 0 | 1 | 1 | 1 | 1 | 10 |

|      |   |   |   |   |   |    |
|------|---|---|---|---|---|----|
| R140 | 0 | 0 | 1 | 1 | 1 | 13 |
| R141 | 1 | 1 | 1 | 1 | 1 | 11 |
| R142 | 0 | 0 | 0 | 0 | 1 | 7  |
| R143 | 1 | 1 | 1 | 1 | 1 | 15 |
| R144 | 1 | 1 | 1 | 1 | 1 | 16 |
| R145 | 1 | 1 | 1 | 1 | 1 | 16 |
| R146 | 1 | 1 | 1 | 1 | 1 | 16 |
| R147 | 1 | 1 | 1 | 1 | 1 | 18 |
| R148 | 1 | 1 | 1 | 1 | 1 | 16 |
| R149 | 0 | 1 | 1 | 1 | 1 | 12 |
| R150 | 0 | 0 | 0 | 1 | 0 | 11 |
| R151 | 1 | 1 | 1 | 1 | 1 | 20 |
| R152 | 0 | 0 | 1 | 1 | 1 | 10 |
| R153 | 1 | 1 | 1 | 1 | 1 | 15 |
| R154 | 0 | 0 | 0 | 1 | 1 | 10 |
| R155 | 0 | 1 | 0 | 0 | 0 | 12 |
| R156 | 1 | 1 | 1 | 1 | 1 | 15 |
| R157 | 1 | 1 | 1 | 1 | 1 | 17 |
| R158 | 1 | 1 | 1 | 1 | 1 | 13 |
| R159 | 1 | 1 | 1 | 1 | 1 | 15 |
| R160 | 1 | 0 | 1 | 1 | 1 | 12 |
| R161 | 1 | 1 | 1 | 1 | 1 | 10 |
| R162 | 1 | 1 | 1 | 1 | 1 | 13 |
| R163 | 1 | 0 | 1 | 1 | 1 | 11 |
| R164 | 1 | 1 | 1 | 1 | 1 | 12 |
| R165 | 1 | 1 | 1 | 1 | 1 | 13 |
| R166 | 1 | 0 | 1 | 1 | 1 | 12 |
| R167 | 0 | 1 | 1 | 1 | 1 | 13 |
| R168 | 1 | 1 | 1 | 1 | 1 | 13 |
| R169 | 1 | 1 | 1 | 1 | 1 | 12 |
| R170 | 1 | 1 | 1 | 1 | 1 | 13 |
| R171 | 0 | 0 | 0 | 0 | 1 | 10 |



|      |   |   |   |   |   |    |
|------|---|---|---|---|---|----|
| R172 | 0 | 1 | 1 | 1 | 0 | 14 |
| R173 | 1 | 1 | 1 | 1 | 0 | 13 |
| R174 | 1 | 1 | 1 | 1 | 1 | 11 |
| R175 | 1 | 0 | 0 | 0 | 0 | 8  |
| R176 | 1 | 1 | 1 | 0 | 1 | 10 |
| R177 | 0 | 0 | 1 | 1 | 1 | 17 |
| R178 | 0 | 1 | 0 | 0 | 1 | 8  |
| R179 | 1 | 1 | 1 | 1 | 1 | 15 |
| R180 | 0 | 1 | 1 | 1 | 1 | 10 |
| R181 | 1 | 0 | 1 | 0 | 1 | 11 |
| R182 | 1 | 1 | 0 | 1 | 1 | 14 |
| R183 | 0 | 1 | 1 | 1 | 1 | 15 |
| R184 | 0 | 0 | 0 | 1 | 1 | 7  |
| R185 | 0 | 1 | 1 | 1 | 1 | 18 |
| R186 | 1 | 1 | 1 | 1 | 1 | 14 |
| R187 | 1 | 1 | 1 | 0 | 1 | 16 |
| R188 | 0 | 1 | 0 | 1 | 1 | 11 |
| R189 | 1 | 0 | 0 | 1 | 1 | 9  |
| R190 | 1 | 1 | 0 | 0 | 1 | 12 |
| R191 | 1 | 1 | 1 | 1 | 1 | 11 |
| R192 | 0 | 0 | 0 | 0 | 0 | 6  |
| R193 | 1 | 1 | 1 | 1 | 1 | 20 |
| R194 | 1 | 1 | 1 | 1 | 1 | 15 |
| R195 | 1 | 1 | 1 | 1 | 1 | 12 |
| R196 | 0 | 0 | 1 | 0 | 0 | 10 |
| R197 | 0 | 1 | 0 | 1 | 1 | 8  |
| R198 | 1 | 1 | 1 | 1 | 1 | 19 |
| R199 | 1 | 1 | 1 | 1 | 1 | 13 |
| R200 | 1 | 0 | 0 | 1 | 1 | 5  |
| R201 | 0 | 1 | 1 | 1 | 1 | 10 |
| R202 | 1 | 1 | 1 | 1 | 1 | 15 |
| R203 | 0 | 1 | 1 | 1 | 0 | 11 |

|      |   |   |   |   |   |    |
|------|---|---|---|---|---|----|
| R204 | 1 | 1 | 1 | 1 | 1 | 12 |
| R205 | 1 | 1 | 1 | 1 | 1 | 13 |
| R206 | 0 | 0 | 1 | 0 | 1 | 8  |
| R207 | 0 | 1 | 0 | 0 | 0 | 5  |
| R208 | 1 | 1 | 1 | 1 | 1 | 19 |
| R209 | 1 | 1 | 1 | 1 | 1 | 20 |
| R210 | 0 | 0 | 1 | 0 | 0 | 5  |
| R211 | 1 | 1 | 1 | 1 | 1 | 14 |
| R212 | 0 | 1 | 1 | 1 | 1 | 6  |
| R213 | 1 | 1 | 1 | 1 | 1 | 16 |
| R214 | 1 | 0 | 0 | 0 | 0 | 6  |
| R215 | 1 | 1 | 1 | 1 | 0 | 9  |
| R216 | 0 | 0 | 0 | 1 | 0 | 8  |
| R217 | 1 | 1 | 1 | 1 | 1 | 13 |
| R218 | 0 | 0 | 1 | 1 | 1 | 5  |
| R219 | 0 | 0 | 1 | 1 | 1 | 8  |
| R220 | 1 | 0 | 1 | 0 | 1 | 11 |
| R221 | 1 | 0 | 1 | 0 | 1 | 14 |
| R222 | 1 | 1 | 1 | 1 | 1 | 10 |
| R223 | 0 | 1 | 0 | 1 | 1 | 8  |
| R224 | 1 | 0 | 1 | 1 | 1 | 9  |
| R225 | 1 | 1 | 1 | 1 | 1 | 20 |
| R226 | 0 | 1 | 1 | 1 | 0 | 9  |
| R227 | 1 | 1 | 1 | 1 | 1 | 19 |
| R228 | 0 | 1 | 1 | 1 | 1 | 10 |
| R229 | 0 | 1 | 1 | 1 | 1 | 12 |
| R230 | 1 | 1 | 1 | 1 | 1 | 15 |
| R231 | 0 | 0 | 0 | 1 | 1 | 6  |
| R232 | 0 | 0 | 0 | 0 | 1 | 5  |
| R233 | 1 | 1 | 1 | 1 | 1 | 17 |
| R234 | 1 | 1 | 1 | 1 | 1 | 16 |
| R235 | 1 | 1 | 1 | 1 | 1 | 14 |

|      |   |   |   |   |   |    |
|------|---|---|---|---|---|----|
| R236 | 1 | 0 | 0 | 1 | 1 | 10 |
| R237 | 1 | 1 | 1 | 1 | 1 | 20 |
| R238 | 0 | 0 | 1 | 1 | 1 | 12 |
| R239 | 0 | 1 | 0 | 1 | 1 | 11 |
| R240 | 0 | 1 | 1 | 1 | 1 | 11 |
| R241 | 0 | 1 | 0 | 1 | 0 | 6  |
| R242 | 1 | 1 | 1 | 1 | 1 | 12 |
| R243 | 0 | 1 | 1 | 0 | 1 | 9  |
| R244 | 0 | 0 | 0 | 1 | 0 | 4  |
| R245 | 0 | 0 | 1 | 0 | 0 | 7  |
| R246 | 0 | 1 | 0 | 1 | 1 | 6  |
| R247 | 0 | 1 | 0 | 0 | 1 | 6  |
| R248 | 0 | 1 | 1 | 1 | 1 | 16 |
| R249 | 0 | 1 | 1 | 1 | 0 | 6  |
| R250 | 1 | 1 | 1 | 1 | 1 | 9  |
| R251 | 1 | 1 | 1 | 0 | 0 | 8  |
| R252 | 1 | 1 | 1 | 1 | 1 | 13 |
| R253 | 0 | 1 | 1 | 0 | 1 | 5  |
| R254 | 0 | 0 | 0 | 1 | 1 | 10 |
| R255 | 0 | 0 | 1 | 0 | 1 | 7  |
| R256 | 0 | 1 | 0 | 1 | 0 | 6  |
| R257 | 0 | 1 | 1 | 1 | 1 | 7  |
| R258 | 1 | 1 | 1 | 1 | 1 | 19 |
| R259 | 0 | 0 | 0 | 1 | 1 | 5  |
| R260 | 1 | 1 | 1 | 1 | 1 | 18 |
| R261 | 1 | 1 | 1 | 1 | 1 | 19 |
| R262 | 1 | 1 | 1 | 1 | 1 | 18 |
| R263 | 1 | 1 | 1 | 1 | 1 | 10 |
| R264 | 0 | 0 | 0 | 1 | 1 | 9  |
| R265 | 0 | 1 | 0 | 1 | 1 | 5  |
| R266 | 1 | 1 | 1 | 1 | 1 | 11 |
| R267 | 0 | 1 | 1 | 1 | 1 | 15 |

|      |   |   |   |   |   |    |
|------|---|---|---|---|---|----|
| R268 | 0 | 1 | 0 | 0 | 1 | 8  |
| R269 | 0 | 0 | 1 | 1 | 0 | 6  |
| R270 | 1 | 1 | 0 | 1 | 0 | 7  |
| R271 | 0 | 0 | 0 | 1 | 0 | 5  |
| R272 | 0 | 1 | 0 | 1 | 0 | 5  |
| R273 | 1 | 1 | 1 | 1 | 1 | 19 |
| R274 | 0 | 1 | 1 | 1 | 1 | 14 |
| R275 | 0 | 1 | 1 | 1 | 1 | 12 |
| R276 | 0 | 1 | 1 | 1 | 1 | 14 |
| R277 | 0 | 1 | 1 | 1 | 1 | 10 |
| R278 | 0 | 1 | 1 | 1 | 1 | 5  |
| R279 | 0 | 1 | 0 | 0 | 1 | 10 |
| R280 | 1 | 1 | 1 | 1 | 1 | 19 |
| R281 | 1 | 1 | 1 | 1 | 1 | 20 |
| R282 | 0 | 1 | 1 | 1 | 1 | 10 |
| R283 | 1 | 1 | 1 | 1 | 1 | 14 |
| R284 | 0 | 1 | 1 | 1 | 1 | 5  |
| R285 | 1 | 1 | 1 | 1 | 1 | 15 |
| R286 | 0 | 1 | 1 | 1 | 1 | 9  |
| R287 | 0 | 1 | 1 | 1 | 1 | 13 |
| R288 | 1 | 1 | 1 | 1 | 1 | 16 |
| R289 | 0 | 1 | 1 | 1 | 0 | 6  |
| R290 | 0 | 1 | 0 | 1 | 1 | 9  |
| R291 | 1 | 1 | 1 | 1 | 1 | 14 |
| R292 | 0 | 0 | 1 | 0 | 0 | 7  |
| R293 | 1 | 1 | 1 | 1 | 1 | 19 |
| R294 | 0 | 1 | 1 | 1 | 1 | 16 |
| R295 | 1 | 1 | 1 | 1 | 1 | 19 |
| R296 | 1 | 1 | 1 | 1 | 1 | 13 |
| R297 | 1 | 1 | 1 | 1 | 1 | 13 |
| R298 | 0 | 1 | 1 | 1 | 1 | 11 |
| R299 | 1 | 1 | 1 | 1 | 1 | 13 |

|      |   |   |   |   |   |    |
|------|---|---|---|---|---|----|
| R300 | 0 | 0 | 1 | 1 | 1 | 12 |
| R301 | 1 | 0 | 0 | 1 | 1 | 10 |
| R302 | 0 | 1 | 1 | 1 | 1 | 14 |
| R303 | 1 | 1 | 1 | 1 | 1 | 18 |
| R304 | 1 | 1 | 0 | 1 | 1 | 14 |
| R305 | 0 | 1 | 1 | 1 | 1 | 12 |
| R306 | 1 | 1 | 1 | 1 | 1 | 15 |
| R307 | 0 | 1 | 1 | 1 | 1 | 15 |
| R308 | 1 | 1 | 1 | 1 | 1 | 11 |
| R309 | 1 | 1 | 1 | 1 | 1 | 19 |
| R310 | 1 | 1 | 1 | 1 | 1 | 17 |
| R311 | 1 | 1 | 1 | 1 | 1 | 14 |
| R312 | 0 | 0 | 0 | 0 | 0 | 7  |
| R313 | 1 | 1 | 1 | 1 | 1 | 18 |
| R314 | 0 | 1 | 1 | 1 | 1 | 5  |
| R315 | 1 | 1 | 1 | 1 | 1 | 12 |
| R316 | 0 | 1 | 1 | 1 | 1 | 16 |
| R317 | 1 | 1 | 1 | 1 | 1 | 15 |
| R318 | 0 | 1 | 1 | 1 | 1 | 5  |
| R319 | 1 | 1 | 1 | 1 | 1 | 19 |
| R320 | 0 | 1 | 1 | 0 | 1 | 5  |
| R321 | 0 | 1 | 1 | 1 | 1 | 12 |
| R322 | 0 | 1 | 1 | 1 | 1 | 5  |
| R323 | 0 | 1 | 1 | 1 | 1 | 13 |
| R324 | 1 | 0 | 1 | 1 | 1 | 14 |
| R325 | 0 | 1 | 1 | 1 | 1 | 12 |
| R326 | 0 | 1 | 1 | 1 | 1 | 17 |
| R327 | 1 | 1 | 1 | 1 | 1 | 19 |
| R328 | 1 | 0 | 1 | 0 | 0 | 8  |
| R329 | 0 | 0 | 1 | 1 | 1 | 5  |
| R330 | 0 | 1 | 1 | 1 | 1 | 9  |
| R331 | 1 | 1 | 1 | 1 | 1 | 12 |

|      |   |   |   |   |   |    |
|------|---|---|---|---|---|----|
| R332 | 1 | 0 | 0 | 1 | 1 | 6  |
| R333 | 0 | 0 | 0 | 0 | 0 | 8  |
| R334 | 1 | 1 | 1 | 1 | 1 | 15 |
| R335 | 0 | 1 | 1 | 1 | 1 | 5  |
| R336 | 0 | 1 | 1 | 1 | 1 | 17 |
| R337 | 1 | 1 | 1 | 1 | 1 | 19 |
| R338 | 0 | 1 | 1 | 1 | 1 | 12 |
| R339 | 1 | 1 | 1 | 1 | 1 | 19 |
| R340 | 1 | 1 | 1 | 1 | 1 | 20 |
| R341 | 1 | 0 | 1 | 1 | 1 | 11 |
| R342 | 0 | 1 | 0 | 1 | 1 | 8  |
| R343 | 0 | 1 | 1 | 1 | 1 | 15 |
| R344 | 0 | 1 | 1 | 1 | 1 | 12 |
| R345 | 1 | 1 | 1 | 1 | 1 | 13 |
| R346 | 1 | 1 | 1 | 1 | 1 | 20 |
| R347 | 1 | 1 | 1 | 1 | 1 | 17 |
| R348 | 0 | 0 | 0 | 1 | 1 | 9  |
| R349 | 1 | 1 | 1 | 1 | 1 | 14 |
| R350 | 0 | 0 | 0 | 1 | 0 | 11 |
| R351 | 0 | 1 | 1 | 1 | 1 | 19 |
| R352 | 1 | 0 | 1 | 0 | 1 | 12 |
| R353 | 0 | 1 | 1 | 1 | 1 | 11 |
| R354 | 0 | 1 | 1 | 1 | 1 | 17 |
| R355 | 1 | 1 | 1 | 1 | 1 | 20 |
| R356 | 0 | 1 | 0 | 0 | 1 | 6  |
| R357 | 0 | 1 | 1 | 1 | 1 | 15 |
| R358 | 0 | 0 | 0 | 1 | 0 | 5  |
| R359 | 0 | 1 | 1 | 0 | 1 | 6  |
| R360 | 1 | 0 | 1 | 1 | 0 | 13 |
| R361 | 0 | 0 | 1 | 0 | 0 | 9  |
| R362 | 0 | 1 | 0 | 0 | 1 | 8  |
| R363 | 0 | 1 | 0 | 0 | 0 | 7  |



|      |   |   |   |   |   |   |
|------|---|---|---|---|---|---|
| R364 | 0 | 1 | 0 | 0 | 1 | 5 |
|------|---|---|---|---|---|---|

### Lampiran 31

#### OUTPUT SPSS DESKRIPSI UMUM KONDISI EKONOMI KELUARGA, KEDISIPLINAN SISWA DAN HASIL BELAJAR FISIKA

| Statistics   |         |                 |              |                 |
|--|---------|-----------------|--------------|-----------------|
|  |         | Kondisi Ekonomi | Kedisiplinan | Hasil belajar   |
| N  | Valid   | 364             | 364          | 364             |
|  | Missing | 0               | 0            | 0               |
| Mean   |         | 83.70           | 90.06        | 61.65           |
| Median   |         | 84.00           | 89.50        | 60.00           |
| Mode   |         | 84              | 85           | 60 <sup>a</sup> |
| Std. Deviation                                       |         | 5.912           | 9.252        | 20.531          |
| Variance   |         | 34.950          | 85.597       | 421.518         |
| Range  |         | 39              | 59           | 80              |
| Minimum  |         | 64              | 59           | 20              |
| Maximum  |         | 103             | 118          | 100             |
| a. Multiple modes exist. The smallest value is shown |         |                 |              |                 |



## Lampiran 32

## DESKRIPSI DIMENSI KONSISI EKONOMI KELUARGA

| No | Dimensi                                      | No Butir | Jumlah Skor | Skor rerata | Skor Ideal | Skor Konversi | Kategori |               |
|----|--|----------|-------------|-------------|------------|---------------|----------|---------------|
| 1  | Tingkat Pendidikan                           | 1        | 1572        | 5378        | 14,77      | 20            | 92,34    | Sangat Tinggi |
|    |  | 2        | 1655        |             |            |               |          |               |
|    |  | 3        | 988         |             |            |               |          |               |
|    |  | 4        | 1163        |             |            |               |          |               |
| 2  | Pekerjaan Dan Penghasilan                    | 5        | 1461        | 9340        | 25,66      | 40            | 80,19    | Tinggi        |
|    |  | 6        | 1159        |             |            |               |          |               |
|    |  | 7        | 1062        |             |            |               |          |               |
|    |  | 8        | 829         |             |            |               |          |               |
|    |  | 9        | 1415        |             |            |               |          |               |
|    |  | 10       | 1196        |             |            |               |          |               |
|    |  | 11       | 1174        |             |            |               |          |               |
|    |  | 12       | 1044        |             |            |               |          |               |
| 3  | Pengeluaran dan Pemenuhan Kebutuhan Keluarga | 13       | 869         | 15743       | 43,25      | 65            | 83,17    | Tinggi        |
|    |  | 14       | 1108        |             |            |               |          |               |
|    |  | 15       | 1302        |             |            |               |          |               |
|    |  | 16       | 1427        |             |            |               |          |               |
|    |  | 17       | 1205        |             |            |               |          |               |
|    |  | 18       | 882         |             |            |               |          |               |
|    |  | 19       | 1512        |             |            |               |          |               |
|    |  | 20       | 856         |             |            |               |          |               |
|    |  | 21       | 1524        |             |            |               |          |               |
|    |  | 22       | 1312        |             |            |               |          |               |
|    |  | 23       | 914         |             |            |               |          |               |
|    |  | 24       | 1359        |             |            |               |          |               |
|    |  | 25       | 1473        |             |            |               |          |               |

Keterangan:

Skor rerata = jumlah skor tiap dimensi : jumlah responden

Skor konversi = (skor rerata : skor ideal) x 150

| Interval Skor Rata-Rata | Kategori      | Frekuensi Siswa | Presentase (%) |
|-------------------------|---------------|-----------------|----------------|
| $\bar{X} \geq 100$      | Sangat tinggi | 1               | 0%             |
| $83 \leq \bar{X} < 100$ | Tinggi        | 185             | 51%            |
| $67 \leq \bar{X} < 83$  | Sedang        | 175             | 48%            |

|                        |               |     |      |
|------------------------|---------------|-----|------|
| $50 \leq \bar{X} < 67$ | Rendah        | 3   | 1%   |
| $\bar{X} < 50$         | Sangat rendah | 0   | 0%   |
| Total                  |               | 364 | 100% |



## Lampiran 33

## DESKRIPSI DIMENSI KEDISIPLINAN SISWA

| No | Dimensi  | No Butir | Jumlah Skor | Skor rerata | Skor Ideal | Skor Konversi | Kategori |               |
|----|--|----------|-------------|-------------|------------|---------------|----------|---------------|
| 1  | Ketaatan terhadap tata tertib sekolah            | 1        | 1613        | 9707        | 26,67      | 35            | 95,24    | Sangat Tinggi |
|    |  | 2        | 1594        |             |            |               |          |               |
|    |  | 3        | 1316        |             |            |               |          |               |
|    |  | 4        | 1268        |             |            |               |          |               |
|    |  | 5        | 1425        |             |            |               |          |               |
|    |  | 6        | 1056        |             |            |               |          |               |
|    |  | 7        | 1435        |             |            |               |          |               |
| 2  | Ketaatan dalam mengerjakan tugas-tugas pelajaran | 8        | 1250        | 6819        | 18,73      | 25            | 93,67    | Sangat Tinggi |
|    |  | 9        | 1495        |             |            |               |          |               |
|    |  | 10       | 1367        |             |            |               |          |               |
|    |  | 11       | 1461        |             |            |               |          |               |
|    |  | 12       | 1246        |             |            |               |          |               |
| 3  | Disiplin terhadap kegiatan belajar di sekolah    | 13       | 1145        | 8528        | 23,43      | 35            | 83,67    | Tinggi        |
|    |  | 14       | 1022        |             |            |               |          |               |
|    |  | 15       | 1151        |             |            |               |          |               |
|    |  | 16       | 1409        |             |            |               |          |               |
|    |  | 17       | 991         |             |            |               |          |               |
|    |  | 18       | 1322        |             |            |               |          |               |
|    |  | 19       | 1488        |             |            |               |          |               |
| 4  | Disiplin terhadap kegiatan belajar di rumah      | 20       | 1369        | 7727        | 21,23      | 30            | 88,45    | Sangat Tinggi |
|    |  | 21       | 1475        |             |            |               |          |               |
|    |  | 22       | 1127        |             |            |               |          |               |
|    |  | 23       | 1191        |             |            |               |          |               |
|    |  | 24       | 1266        |             |            |               |          |               |
|    |  | 25       | 1299        |             |            |               |          |               |

Keterangan:

Skor rerata = jumlah skor tiap dimensi : jumlah responden

Skor konversi = (skor rerata : skor ideal) x 150

| Interval Skor Rata-Rata | Kategori      | Frekuensi Siswa | Presentase (%) |
|-------------------------|---------------|-----------------|----------------|
| $\bar{X} \geq 100$      | Sangat tinggi | 48              | 13%            |
| $83 \leq \bar{X} < 100$ | Tinggi        | 235             | 65%            |
| $67 \leq \bar{X} < 83$  | Sedang        | 77              | 21%            |
| $50 \leq \bar{X} < 67$  | Rendah        | 4               | 1%             |
| $\bar{X} < 50$          | Sangat rendah | 0               | 0%             |
| Total                   |               |                 | 364            |



## Lampiran 34

## DESKRIPSI DIMENSI HASIL BELAJAR SISWA

## A. Proses Kognitif

| No | Dimensi | No Butir | Jumlah Skor | Skor rerata | Skor Ideal | Skor Konversi | Kategori |        |
|----|---------|----------|-------------|-------------|------------|---------------|----------|--------|
| 1  | C3      | 1        | 202         | 1856        | 5,10       | 8             | 63,74    | Sedang |
|    |         | 2        | 228         |             |            |               |          |        |
|    |         | 3        | 212         |             |            |               |          |        |
|    |         | 4        | 225         |             |            |               |          |        |
|    |         | 5        | 234         |             |            |               |          |        |
|    |         | 6        | 217         |             |            |               |          |        |
|    |         | 7        | 235         |             |            |               |          |        |
|    |         | 18       | 303         |             |            |               |          |        |
| 2  | C4      | 8        | 210         | 2036        | 5,59       | 8             | 69,92    | Sedang |
|    |         | 9        | 222         |             |            |               |          |        |
|    |         | 10       | 213         |             |            |               |          |        |
|    |         | 15       | 220         |             |            |               |          |        |
|    |         | 16       | 230         |             |            |               |          |        |
|    |         | 17       | 299         |             |            |               |          |        |
|    |         | 19       | 316         |             |            |               |          |        |
| 20 | 326     |          |             |             |            |               |          |        |
| 3  | C5      | 13       | 202         | 408         | 1,12       | 2             | 56,04    | Sedang |
|    |         | 14       | 206         |             |            |               |          |        |
| 4  | C6      | 11       | 200         | 398         | 1,09       | 2             | 54,67    | Sedang |
|    |         | 12       | 198         |             |            |               |          |        |

Keterangan:

Skor rerata = jumlah skor tiap dimensi : jumlah responden

Skor konversi = (skor rerata : skor ideal) x 150



| Interval Nilai | Kategori      | Frekuensi Siswa | Presentase (%) |
|----------------|---------------|-----------------|----------------|
| 85 – 100       | Sangat tinggi | 64              | 18%            |
| 70 – 84        | Tinggi        | 77              | 21%            |
| 55 – 69        | Sedang        | 103             | 28%            |
| 40 – 54        | Rendah        | 67              | 18%            |
| 0 – 39         | Sangat rendah | 53              | 15%            |
| Total          |               |                 | 364            |



## Lampiran 35

## OUTPUT SPSS UJI NORMALITAS

| One-Sample Kolmogorov-Smirnov Test     |                |                    |                   |                   |
|--|----------------|--------------------|-------------------|-------------------|
|  |                | Kondisi<br>Ekonomi | Kedisiplinan      | Hasil belajar     |
| N                                      |                | 364                | 364               | 364               |
| Normal Parameters <sup>a,b</sup>       | Mean           | 83.70              | 90.06             | 61.65             |
|  | Std. Deviation | 5.912              | 9.252             | 20.531            |
| Most Extreme Differences               | Absolute       | .042               | .046              | .048              |
|  | Positive       | .042               | .046              | .048              |
|  | Negative       | -.036              | -.034             | -.048             |
| Test Statistic                         |                | .042               | .046              | .048              |
| Asymp. Sig. (2-tailed)                 |                | .197 <sup>c</sup>  | .067 <sup>c</sup> | .059 <sup>c</sup> |
| a. Test distribution is Normal.        |                |                    |                   |                   |
| b. Calculated from data.               |                |                    |                   |                   |
| c. Lilliefors Significance Correction. |                |                    |                   |                   |



## Lampiran 36

## OUTPUT SPSS UJI LINIERITAS

| Case Processing Summary         |          |         |          |         |       |         |
|---------------------------------|----------|---------|----------|---------|-------|---------|
|                                 | Cases    |         |          |         |       |         |
|                                 | Included |         | Excluded |         | Total |         |
|                                 | N        | Percent | N        | Percent | N     | Percent |
| Hasil belajar * Kondisi Ekonomi | 364      | 100.0%  | 0        | 0.0%    | 364   | 100.0%  |
| Hasil belajar * Kedisiplinan    | 364      | 100.0%  | 0        | 0.0%    | 364   | 100.0%  |

| ANOVA Table                           |                   |                             |                |     |             |        |      |
|---------------------------------------|-------------------|-----------------------------|----------------|-----|-------------|--------|------|
|                                       |                   |                             | Sum of Squares | df  | Mean Square | F      | Sig. |
| Hasil belajar *<br>Kondisi<br>Ekonomi | Between<br>Groups | (Combined)                  | 15749.859      | 31  | 20.322      | 1.229  | .192 |
|                                       |                   | Linearity                   | 4225.012       | 1   | 169.000     | 10.219 | .002 |
|                                       |                   | Deviation from<br>Linearity | 11524.847      | 30  | 15.366      | .929   | .577 |
|                                       | Within Groups     |                             | 137261.130     | 332 | 16.537      |        |      |
|                                       | Total             |                             | 153010.989     | 363 |             |        |      |

| ANOVA Table                     |                   |                             |                |     |             |        |      |
|---------------------------------|-------------------|-----------------------------|----------------|-----|-------------|--------|------|
|                                 |                   |                             | Sum of Squares | df  | Mean Square | F      | Sig. |
| Hasil belajar *<br>Kedisiplinan | Between<br>Groups | (Combined)                  | 28966.844      | 46  | 25.189      | 1.609  | .010 |
|                                 |                   | Linearity                   | 9884.822       | 1   | 395.393     | 25.261 | .000 |
|                                 |                   | Deviation<br>from Linearity | 19082.022      | 45  | 16.962      | 1.084  | .339 |
|                                 | Within Groups     |                             | 124044.145     | 317 | 15.652      |        |      |
|                                 | Total             |                             | 153010.989     | 363 |             |        |      |

## Lampiran 37

## OUTPUT SPSS MULTIKOLINEARITAS

| Variables Entered/Removed <sup>a</sup> |  |                   |        |
|--|--|-------------------|--------|
| Model                                  | Variables Entered                                | Variables Removed | Method |
| 1                                      | Kedisiplinan,<br>Kondisi<br>Ekonomi <sup>b</sup> |                   | Enter  |
| a. Dependent Variable: Hasil belajar   |  |                   |        |
| b. All requested variables entered.    |  |                   |        |

| Coefficients <sup>a</sup>            |                    |                             |            |                           |        |      |                         |       |
|--------------------------------------|--------------------|-----------------------------|------------|---------------------------|--------|------|-------------------------|-------|
| Model                                |                    | Unstandardized Coefficients |            | Standardized Coefficients | t      | Sig. | Collinearity Statistics |       |
|                                      |                    | B                           | Std. Error | Beta                      |        |      | Tolerance               | VIF   |
| 1                                    | (Constant)         | -31.507                     | 17.303     |                           | -1.821 | .069 |                         |       |
|                                      | Kondisi<br>Ekonomi | .527                        | .175       | .152                      | 3.015  | .003 | .997                    | 1.003 |
|                                      | Kedisiplinan       | .544                        | .112       | .245                      | 4.871  | .000 | .997                    | 1.003 |
| a. Dependent Variable: Hasil belajar |                    |                             |            |                           |        |      |                         |       |

## Lampiran 38

## OUTPUT SPSS AUTOKORELASI

| Variables Entered/Removed <sup>a</sup> |   |                   |        |
|--|---|-------------------|--------|
| Model                                  | Variables Entered                             | Variables Removed | Method |
| 1                                      | Kedisiplinan,<br>Kondisi Ekonomi <sup>b</sup> | .                 | Enter  |
| a. Dependent Variable: Hasil belajar   |   |                   |        |
| b. All requested variables entered.    |   |                   |        |

| Model Summary <sup>b</sup>                               |                   |          |                   |                            |               |
|--|-------------------|----------|-------------------|----------------------------|---------------|
| Model  | R                 | R Square | Adjusted R Square | Std. Error of the Estimate | Durbin-Watson |
| 1  | .296 <sup>a</sup> | .088     | .083              | 19.666                     | 1.918         |
| a. Predictors: (Constant), Kedisiplinan, Kondisi Ekonomi |                   |          |                   |                            |               |
| b. Dependent Variable: Hasil belajar                     |                   |          |                   |                            |               |

## Lampiran 39

## OUTPUT SPSS HETEROSKEDASTISITAS

| Coefficients <sup>a</sup>      |                 |                             |            |                           |        |      |
|--------------------------------|-----------------|-----------------------------|------------|---------------------------|--------|------|
| Model                          |                 | Unstandardized Coefficients |            | Standardized Coefficients | t      | Sig. |
|                                |                 | B                           | Std. Error | Beta                      |        |      |
| 1                              | (Constant)      | 16.872                      | 9.840      |                           | 1.715  | .087 |
|                                | Kondisi Ekonomi | -.103                       | .099       | -.054                     | -1.031 | .303 |
|                                | Kedisiplinan    | .087                        | .064       | .071                      | 1.361  | .174 |
| a. Dependent Variable: ABS_RES |                 |                             |            |                           |        |      |

## Lampiran 40

## OUTPUT SPSS UNTUK REGRESI X1 TERHADAP Y

| Variables Entered/Removed <sup>a</sup> |                              |                   |        |
|--|------------------------------|-------------------|--------|
| Model                                  | Variables Entered            | Variables Removed | Method |
| 1                                      | Kondisi Ekonomi <sup>b</sup> |                   | Enter  |
| a. Dependent Variable: Hasil belajar   |                              |                   |        |
| b. All requested variables entered.    |                              |                   |        |

| Model Summary                              |                   |          |                   |                            |
|--|-------------------|----------|-------------------|----------------------------|
| Model                                      | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
| 1  | .166 <sup>a</sup> | .028     | .025              | 20.273                     |
| a. Predictors: (Constant), Kondisi Ekonomi |                   |          |                   |                            |

| ANOVA <sup>a</sup>                         |            |                |     |             |        |                   |
|--|------------|----------------|-----|-------------|--------|-------------------|
| Model                                      |            | Sum of Squares | df  | Mean Square | F      | Sig.              |
| 1  | Regression | 4225.012       | 1   | 422.012     | 10.280 | .001 <sup>b</sup> |
|  | Residual   | 148785.977     | 362 | 411.011     |        |                   |
|  | Total      | 153010.989     | 363 |             |        |                   |
| a. Dependent Variable: Hasil belajar       |            |                |     |             |        |                   |
| b. Predictors: (Constant), Kondisi Ekonomi |            |                |     |             |        |                   |

| Coefficients <sup>a</sup>            |                 |                             |            |                           |       |      |
|--------------------------------------|-----------------|-----------------------------|------------|---------------------------|-------|------|
| Model                                |                 | Unstandardized Coefficients |            | Standardized Coefficients | t     | Sig. |
|                                      |                 | B                           | Std. Error | Beta                      |       |      |
| 1                                    | (Constant)      | 13.348                      | 15.102     |                           | .884  | .377 |
|                                      | Kondisi Ekonomi | .577                        | .180       | .166                      | 3.206 | .001 |
| a. Dependent Variable: Hasil belajar |                 |                             |            |                           |       |      |



## Lampiran 41

## OUTPUT SPSS UNTUK REGRESI X2 TERHADAP Y

| Variables Entered/Removed <sup>a</sup> |                           |                   |        |
|--|---------------------------|-------------------|--------|
| Model                                  | Variables Entered         | Variables Removed | Method |
| 1                                      | Kedisiplinan <sup>b</sup> | .                 | Enter  |
| a. Dependent Variable: Hasil belajar   |                           |                   |        |
| b. All requested variables entered.    |                           |                   |        |

| Model Summary  |                   |          |                   |                            |
|--|-------------------|----------|-------------------|----------------------------|
| Model  | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
| 1  | .254 <sup>a</sup> | .065     | .062              | 19.884                     |
| a. Predictors: (Constant), Kedisiplinan, Kondisi Ekonomi |                   |          |                   |                            |

| ANOVA <sup>a</sup>                      |            |                |     |             |        |                   |
|---|------------|----------------|-----|-------------|--------|-------------------|
| Model                                   |            | Sum of Squares | df  | Mean Square | F      | Sig.              |
| 1                                       | Regression | 9884.822       | 1   | 9884.822    | 25.001 | .000 <sup>b</sup> |
|   | Residual   | 143126.167     | 362 | 395.376     |        |                   |
|   | Total      | 153010.989     | 363 |             |        |                   |
| a. Dependent Variable: Hasil belajar    |            |                |     |             |        |                   |
| b. Predictors: (Constant), Kedisiplinan |            |                |     |             |        |                   |

| Coefficients <sup>a</sup>            |              |                             |            |                           |       |      |
|--------------------------------------|--------------|-----------------------------|------------|---------------------------|-------|------|
| Model                                |              | Unstandardized Coefficients |            | Standardized Coefficients | t     | Sig. |
|                                      |              | B                           | Std. Error | Beta                      |       |      |
| 1                                    | (Constant)   | 10.853                      | 10.212     |                           | 1.063 | .289 |
|                                      | Kedisiplinan | .564                        | .113       | .254                      | 5.000 | .000 |
| a. Dependent Variable: Hasil belajar |              |                             |            |                           |       |      |

## Lampiran 42

## OUTPUT SPSS UNTUK REGRESI X1 DAN X2 TERHADAP Y

| Variables Entered/Removed <sup>a</sup> |   |                   |        |
|--|---|-------------------|--------|
| Model                                  | Variables Entered                             | Variables Removed | Method |
| 1                                      | Kedisiplinan,<br>Kondisi Ekonomi <sup>b</sup> | .                 | Enter  |
| a. Dependent Variable: Hasil belajar   |   |                   |        |
| b. All requested variables entered.    |   |                   |        |

| Model Summary  |                   |          |                   |                            |
|--|-------------------|----------|-------------------|----------------------------|
| Model  | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
| 1  | .296 <sup>a</sup> | .088     | .083              | 19.666                     |
| a. Predictors: (Constant), Kedisiplinan, Kondisi Ekonomi |                   |          |                   |                            |

| ANOVA <sup>a</sup>                                       |            |                |     |             |        |                   |
|--|------------|----------------|-----|-------------|--------|-------------------|
| Model  |            | Sum of Squares | df  | Mean Square | F      | Sig.              |
| 1  | Regression | 13400.237      | 2   | 6700.119    | 17.325 | .000 <sup>b</sup> |
|  | Residual   | 139610.752     | 361 | 386.733     |        |                   |
|  | Total      | 153010.989     | 363 |             |        |                   |
| a. Dependent Variable: Hasil belajar                     |            |                |     |             |        |                   |
| b. Predictors: (Constant), Kedisiplinan, Kondisi Ekonomi |            |                |     |             |        |                   |

| Coefficients <sup>a</sup>            |                 |                             |            |                           |        |      |
|--------------------------------------|-----------------|-----------------------------|------------|---------------------------|--------|------|
| Model                                |                 | Unstandardized Coefficients |            | Standardized Coefficients | t      | Sig. |
|                                      |                 | B                           | Std. Error | Beta                      |        |      |
| 1                                    | (Constant)      | -31.507                     | 17.303     |                           | -1.821 | .069 |
|                                      | Kondisi Ekonomi | .527                        | .175       | .152                      | 3.015  | .003 |
|                                      | Kedisiplinan    | .544                        | .112       | .245                      | 4.871  | .000 |
| a. Dependent Variable: Hasil belajar |                 |                             |            |                           |        |      |

## Lampiran 43

## HASIL PERHITUNGAN SE DAN SR

| No. | X1 | X2  | Y  | X1Y  | X2Y  |
|-----|----|-----|----|------|------|
| 1   | 89 | 94  | 14 | 1246 | 1316 |
| 2   | 94 | 93  | 20 | 1880 | 1860 |
| 3   | 81 | 92  | 15 | 1215 | 1380 |
| 4   | 85 | 90  | 18 | 1530 | 1620 |
| 5   | 84 | 91  | 18 | 1512 | 1638 |
| 6   | 84 | 89  | 14 | 1176 | 1246 |
| 7   | 87 | 92  | 18 | 1566 | 1656 |
| 8   | 83 | 103 | 19 | 1577 | 1957 |
| 9   | 81 | 99  | 20 | 1620 | 1980 |
| 10  | 88 | 87  | 18 | 1584 | 1566 |
| 11  | 85 | 97  | 18 | 1530 | 1746 |
| 12  | 82 | 97  | 11 | 902  | 1067 |
| 13  | 88 | 104 | 19 | 1672 | 1976 |
| 14  | 85 | 97  | 12 | 1020 | 1164 |
| 15  | 76 | 78  | 6  | 456  | 468  |
| 16  | 81 | 103 | 19 | 1539 | 1957 |
| 17  | 89 | 94  | 13 | 1157 | 1222 |
| 18  | 85 | 90  | 20 | 1700 | 1800 |
| 19  | 75 | 89  | 7  | 525  | 623  |
| 20  | 84 | 94  | 12 | 1008 | 1128 |
| 21  | 85 | 92  | 9  | 765  | 828  |
| 22  | 82 | 98  | 13 | 1066 | 1274 |
| 23  | 90 | 95  | 12 | 1080 | 1140 |
| 24  | 80 | 96  | 11 | 880  | 1056 |
| 25  | 83 | 103 | 17 | 1411 | 1751 |
| 26  | 83 | 100 | 13 | 1079 | 1300 |
| 27  | 83 | 94  | 13 | 1079 | 1222 |
| 28  | 85 | 94  | 11 | 935  | 1034 |
| 29  | 85 | 102 | 20 | 1700 | 2040 |
| 30  | 85 | 80  | 9  | 765  | 720  |
| 31  | 85 | 100 | 14 | 1190 | 1400 |
| 32  | 86 | 90  | 11 | 946  | 990  |
| 33  | 86 | 77  | 13 | 1118 | 1001 |
| 34  | 86 | 99  | 10 | 860  | 990  |
| 35  | 86 | 95  | 17 | 1462 | 1615 |
| 36  | 75 | 90  | 12 | 900  | 1080 |

|    |    |     |    |      |      |
|----|----|-----|----|------|------|
| 37 | 89 | 106 | 11 | 979  | 1166 |
| 38 | 84 | 89  | 9  | 756  | 801  |
| 39 | 85 | 85  | 7  | 595  | 595  |
| 40 | 91 | 92  | 10 | 910  | 920  |
| 41 | 84 | 89  | 11 | 924  | 979  |
| 42 | 82 | 102 | 18 | 1476 | 1836 |
| 43 | 86 | 92  | 7  | 602  | 644  |
| 44 | 77 | 92  | 16 | 1232 | 1472 |
| 45 | 89 | 86  | 9  | 801  | 774  |
| 46 | 77 | 91  | 18 | 1386 | 1638 |
| 47 | 85 | 86  | 16 | 1360 | 1376 |
| 48 | 84 | 97  | 14 | 1176 | 1358 |
| 49 | 74 | 103 | 11 | 814  | 1133 |
| 50 | 87 | 94  | 15 | 1305 | 1410 |
| 51 | 77 | 102 | 10 | 770  | 1020 |
| 52 | 76 | 85  | 13 | 988  | 1105 |
| 53 | 83 | 93  | 9  | 747  | 837  |
| 54 | 79 | 86  | 18 | 1422 | 1548 |
| 55 | 75 | 98  | 7  | 525  | 686  |
| 56 | 88 | 95  | 12 | 1056 | 1140 |
| 57 | 89 | 93  | 16 | 1424 | 1488 |
| 58 | 87 | 100 | 16 | 1392 | 1600 |
| 59 | 76 | 104 | 11 | 836  | 1144 |
| 60 | 92 | 102 | 19 | 1748 | 1938 |
| 61 | 84 | 100 | 14 | 1176 | 1400 |
| 62 | 92 | 102 | 17 | 1564 | 1734 |
| 63 | 85 | 88  | 13 | 1105 | 1144 |
| 64 | 77 | 93  | 11 | 847  | 1023 |
| 65 | 89 | 105 | 16 | 1424 | 1680 |
| 66 | 73 | 95  | 14 | 1022 | 1330 |
| 67 | 78 | 95  | 16 | 1248 | 1520 |
| 68 | 84 | 88  | 14 | 1176 | 1232 |
| 69 | 75 | 96  | 14 | 1050 | 1344 |
| 70 | 78 | 89  | 9  | 702  | 801  |
| 71 | 85 | 99  | 10 | 850  | 990  |
| 72 | 76 | 95  | 14 | 1064 | 1330 |
| 73 | 81 | 91  | 13 | 1053 | 1183 |
| 74 | 75 | 89  | 9  | 675  | 801  |
| 75 | 83 | 101 | 12 | 996  | 1212 |
| 76 | 79 | 94  | 9  | 711  | 846  |
| 77 | 80 | 90  | 8  | 640  | 720  |

|     |    |     |    |      |      |
|-----|----|-----|----|------|------|
| 78  | 84 | 109 | 13 | 1092 | 1417 |
| 79  | 79 | 90  | 9  | 711  | 810  |
| 80  | 85 | 95  | 12 | 1020 | 1140 |
| 81  | 74 | 93  | 16 | 1184 | 1488 |
| 82  | 81 | 94  | 8  | 648  | 752  |
| 83  | 80 | 100 | 15 | 1200 | 1500 |
| 84  | 78 | 100 | 13 | 1014 | 1300 |
| 85  | 87 | 104 | 17 | 1479 | 1768 |
| 86  | 92 | 87  | 11 | 1012 | 957  |
| 87  | 87 | 88  | 11 | 957  | 968  |
| 88  | 87 | 82  | 12 | 1044 | 984  |
| 89  | 83 | 105 | 17 | 1411 | 1785 |
| 90  | 87 | 95  | 13 | 1131 | 1235 |
| 91  | 83 | 99  | 14 | 1162 | 1386 |
| 92  | 78 | 80  | 6  | 468  | 480  |
| 93  | 83 | 101 | 17 | 1411 | 1717 |
| 94  | 77 | 94  | 15 | 1155 | 1410 |
| 95  | 86 | 96  | 13 | 1118 | 1248 |
| 96  | 85 | 97  | 17 | 1445 | 1649 |
| 97  | 84 | 94  | 12 | 1008 | 1128 |
| 98  | 78 | 102 | 15 | 1170 | 1530 |
| 99  | 83 | 86  | 12 | 996  | 1032 |
| 100 | 87 | 83  | 10 | 870  | 830  |
| 101 | 80 | 87  | 12 | 960  | 1044 |
| 102 | 86 | 90  | 14 | 1204 | 1260 |
| 103 | 87 | 87  | 14 | 1218 | 1218 |
| 104 | 89 | 95  | 5  | 445  | 475  |
| 105 | 87 | 95  | 19 | 1653 | 1805 |
| 106 | 82 | 96  | 16 | 1312 | 1536 |
| 107 | 86 | 96  | 12 | 1032 | 1152 |
| 108 | 89 | 95  | 14 | 1246 | 1330 |
| 109 | 79 | 92  | 13 | 1027 | 1196 |
| 110 | 81 | 95  | 11 | 891  | 1045 |
| 111 | 82 | 91  | 9  | 738  | 819  |
| 112 | 86 | 94  | 8  | 688  | 752  |
| 113 | 81 | 79  | 10 | 810  | 790  |
| 114 | 73 | 84  | 8  | 584  | 672  |
| 115 | 80 | 72  | 14 | 1120 | 1008 |
| 116 | 83 | 72  | 13 | 1079 | 936  |
| 117 | 90 | 64  | 10 | 900  | 640  |
| 118 | 80 | 63  | 15 | 1200 | 945  |

|     |    |     |    |      |      |
|-----|----|-----|----|------|------|
| 119 | 82 | 88  | 11 | 902  | 968  |
| 120 | 76 | 79  | 9  | 684  | 711  |
| 121 | 77 | 64  | 10 | 770  | 640  |
| 122 | 65 | 71  | 11 | 715  | 781  |
| 123 | 74 | 59  | 10 | 740  | 590  |
| 124 | 81 | 74  | 12 | 972  | 888  |
| 125 | 83 | 70  | 16 | 1328 | 1120 |
| 126 | 78 | 73  | 13 | 1014 | 949  |
| 127 | 90 | 85  | 14 | 1260 | 1190 |
| 128 | 91 | 88  | 16 | 1456 | 1408 |
| 129 | 93 | 82  | 15 | 1395 | 1230 |
| 130 | 99 | 94  | 19 | 1881 | 1786 |
| 131 | 91 | 86  | 17 | 1547 | 1462 |
| 132 | 87 | 92  | 11 | 957  | 1012 |
| 133 | 91 | 85  | 13 | 1183 | 1105 |
| 134 | 91 | 94  | 14 | 1274 | 1316 |
| 135 | 89 | 75  | 15 | 1335 | 1125 |
| 136 | 91 | 81  | 11 | 1001 | 891  |
| 137 | 94 | 80  | 6  | 564  | 480  |
| 138 | 84 | 81  | 7  | 588  | 567  |
| 139 | 91 | 81  | 10 | 910  | 810  |
| 140 | 78 | 86  | 13 | 1014 | 1118 |
| 141 | 88 | 84  | 11 | 968  | 924  |
| 142 | 91 | 83  | 7  | 637  | 581  |
| 143 | 92 | 93  | 15 | 1380 | 1395 |
| 144 | 86 | 89  | 16 | 1376 | 1424 |
| 145 | 93 | 91  | 16 | 1488 | 1456 |
| 146 | 90 | 93  | 16 | 1440 | 1488 |
| 147 | 92 | 103 | 18 | 1656 | 1854 |
| 148 | 86 | 88  | 16 | 1376 | 1408 |
| 149 | 91 | 85  | 12 | 1092 | 1020 |
| 150 | 87 | 81  | 11 | 957  | 891  |
| 151 | 95 | 95  | 20 | 1900 | 1900 |
| 152 | 96 | 83  | 10 | 960  | 830  |
| 153 | 92 | 84  | 15 | 1380 | 1260 |
| 154 | 95 | 87  | 10 | 950  | 870  |
| 155 | 90 | 84  | 12 | 1080 | 1008 |
| 156 | 89 | 89  | 15 | 1335 | 1335 |
| 157 | 90 | 85  | 17 | 1530 | 1445 |
| 158 | 94 | 82  | 13 | 1222 | 1066 |
| 159 | 86 | 78  | 15 | 1290 | 1170 |

|     |    |     |    |      |      |
|-----|----|-----|----|------|------|
| 160 | 93 | 85  | 12 | 1116 | 1020 |
| 161 | 92 | 86  | 10 | 920  | 860  |
| 162 | 88 | 88  | 13 | 1144 | 1144 |
| 163 | 87 | 92  | 11 | 957  | 1012 |
| 164 | 89 | 80  | 12 | 1068 | 960  |
| 165 | 93 | 81  | 13 | 1209 | 1053 |
| 166 | 95 | 85  | 12 | 1140 | 1020 |
| 167 | 87 | 86  | 13 | 1131 | 1118 |
| 168 | 88 | 85  | 13 | 1144 | 1105 |
| 169 | 90 | 81  | 12 | 1080 | 972  |
| 170 | 91 | 84  | 13 | 1183 | 1092 |
| 171 | 80 | 80  | 10 | 800  | 800  |
| 172 | 87 | 83  | 14 | 1218 | 1162 |
| 173 | 97 | 88  | 13 | 1261 | 1144 |
| 174 | 89 | 84  | 11 | 979  | 924  |
| 175 | 87 | 76  | 8  | 696  | 608  |
| 176 | 86 | 89  | 10 | 860  | 890  |
| 177 | 88 | 80  | 17 | 1496 | 1360 |
| 178 | 99 | 88  | 8  | 792  | 704  |
| 179 | 89 | 85  | 15 | 1335 | 1275 |
| 180 | 94 | 82  | 10 | 940  | 820  |
| 181 | 95 | 86  | 11 | 1045 | 946  |
| 182 | 87 | 90  | 14 | 1218 | 1260 |
| 183 | 92 | 82  | 15 | 1380 | 1230 |
| 184 | 76 | 81  | 7  | 532  | 567  |
| 185 | 85 | 91  | 18 | 1530 | 1638 |
| 186 | 81 | 86  | 14 | 1134 | 1204 |
| 187 | 81 | 79  | 16 | 1296 | 1264 |
| 188 | 87 | 73  | 11 | 957  | 803  |
| 189 | 76 | 82  | 9  | 684  | 738  |
| 190 | 74 | 85  | 12 | 888  | 1020 |
| 191 | 86 | 86  | 11 | 946  | 946  |
| 192 | 82 | 75  | 6  | 492  | 450  |
| 193 | 99 | 103 | 20 | 1980 | 2060 |
| 194 | 81 | 82  | 15 | 1215 | 1230 |
| 195 | 88 | 77  | 12 | 1056 | 924  |
| 196 | 84 | 82  | 10 | 840  | 820  |
| 197 | 99 | 87  | 8  | 792  | 696  |
| 198 | 88 | 82  | 19 | 1672 | 1558 |
| 199 | 80 | 84  | 13 | 1040 | 1092 |
| 200 | 80 | 78  | 5  | 400  | 390  |



|     |     |     |    |      |      |
|-----|-----|-----|----|------|------|
| 201 | 82  | 101 | 10 | 820  | 1010 |
| 202 | 81  | 102 | 15 | 1215 | 1530 |
| 203 | 81  | 82  | 11 | 891  | 902  |
| 204 | 88  | 81  | 12 | 1056 | 972  |
| 205 | 86  | 80  | 13 | 1118 | 1040 |
| 206 | 83  | 82  | 8  | 664  | 656  |
| 207 | 68  | 75  | 5  | 340  | 375  |
| 208 | 88  | 84  | 19 | 1672 | 1596 |
| 209 | 103 | 110 | 20 | 2060 | 2200 |
| 210 | 79  | 79  | 5  | 395  | 395  |
| 211 | 92  | 89  | 14 | 1288 | 1246 |
| 212 | 84  | 83  | 6  | 504  | 498  |
| 213 | 93  | 82  | 16 | 1488 | 1312 |
| 214 | 79  | 75  | 6  | 474  | 450  |
| 215 | 87  | 76  | 9  | 783  | 684  |
| 216 | 74  | 86  | 8  | 592  | 688  |
| 217 | 94  | 77  | 13 | 1222 | 1001 |
| 218 | 64  | 70  | 5  | 320  | 350  |
| 219 | 84  | 77  | 8  | 672  | 616  |
| 220 | 79  | 94  | 11 | 869  | 1034 |
| 221 | 90  | 83  | 14 | 1260 | 1162 |
| 222 | 88  | 80  | 10 | 880  | 800  |
| 223 | 75  | 84  | 8  | 600  | 672  |
| 224 | 92  | 85  | 9  | 828  | 765  |
| 225 | 84  | 115 | 20 | 1680 | 2300 |
| 226 | 87  | 103 | 9  | 783  | 927  |
| 227 | 81  | 117 | 19 | 1539 | 2223 |
| 228 | 85  | 111 | 10 | 850  | 1110 |
| 229 | 82  | 93  | 12 | 984  | 1116 |
| 230 | 80  | 109 | 15 | 1200 | 1635 |
| 231 | 68  | 80  | 6  | 408  | 480  |
| 232 | 79  | 79  | 5  | 395  | 395  |
| 233 | 84  | 110 | 17 | 1428 | 1870 |
| 234 | 75  | 118 | 16 | 1200 | 1888 |
| 235 | 92  | 109 | 14 | 1288 | 1526 |
| 236 | 85  | 86  | 10 | 850  | 860  |
| 237 | 89  | 110 | 20 | 1780 | 2200 |
| 238 | 75  | 96  | 12 | 900  | 1152 |
| 239 | 78  | 100 | 11 | 858  | 1100 |
| 240 | 71  | 86  | 11 | 781  | 946  |
| 241 | 82  | 87  | 6  | 492  | 522  |

|     |    |     |    |      |      |
|-----|----|-----|----|------|------|
| 242 | 76 | 104 | 12 | 912  | 1248 |
| 243 | 82 | 89  | 9  | 738  | 801  |
| 244 | 75 | 102 | 4  | 300  | 408  |
| 245 | 89 | 97  | 7  | 623  | 679  |
| 246 | 82 | 99  | 6  | 492  | 594  |
| 247 | 79 | 96  | 6  | 474  | 576  |
| 248 | 81 | 91  | 16 | 1296 | 1456 |
| 249 | 92 | 115 | 6  | 552  | 690  |
| 250 | 79 | 100 | 9  | 711  | 900  |
| 251 | 79 | 84  | 8  | 632  | 672  |
| 252 | 77 | 98  | 13 | 1001 | 1274 |
| 253 | 89 | 78  | 5  | 445  | 390  |
| 254 | 82 | 84  | 10 | 820  | 840  |
| 255 | 83 | 87  | 7  | 581  | 609  |
| 256 | 76 | 74  | 6  | 456  | 444  |
| 257 | 85 | 97  | 7  | 595  | 679  |
| 258 | 84 | 94  | 19 | 1596 | 1786 |
| 259 | 82 | 79  | 5  | 410  | 395  |
| 260 | 83 | 102 | 18 | 1494 | 1836 |
| 261 | 88 | 98  | 19 | 1672 | 1862 |
| 262 | 92 | 105 | 18 | 1656 | 1890 |
| 263 | 85 | 90  | 10 | 850  | 900  |
| 264 | 90 | 87  | 9  | 810  | 783  |
| 265 | 83 | 75  | 5  | 415  | 375  |
| 266 | 84 | 97  | 11 | 924  | 1067 |
| 267 | 81 | 103 | 15 | 1215 | 1545 |
| 268 | 85 | 104 | 8  | 680  | 832  |
| 269 | 88 | 100 | 6  | 528  | 600  |
| 270 | 76 | 81  | 7  | 532  | 567  |
| 271 | 79 | 85  | 5  | 395  | 425  |
| 272 | 82 | 103 | 5  | 410  | 515  |
| 273 | 83 | 90  | 19 | 1577 | 1710 |
| 274 | 83 | 83  | 14 | 1162 | 1162 |
| 275 | 79 | 97  | 12 | 948  | 1164 |
| 276 | 77 | 107 | 14 | 1078 | 1498 |
| 277 | 90 | 104 | 10 | 900  | 1040 |
| 278 | 79 | 95  | 5  | 395  | 475  |
| 279 | 86 | 97  | 10 | 860  | 970  |
| 280 | 79 | 95  | 19 | 1501 | 1805 |
| 281 | 82 | 76  | 20 | 1640 | 1520 |
| 282 | 89 | 92  | 10 | 890  | 920  |

|     |    |     |    |      |      |
|-----|----|-----|----|------|------|
| 283 | 84 | 97  | 14 | 1176 | 1358 |
| 284 | 84 | 93  | 5  | 420  | 465  |
| 285 | 71 | 88  | 15 | 1065 | 1320 |
| 286 | 91 | 100 | 9  | 819  | 900  |
| 287 | 85 | 84  | 13 | 1105 | 1092 |
| 288 | 79 | 87  | 16 | 1264 | 1392 |
| 289 | 80 | 81  | 6  | 480  | 486  |
| 290 | 78 | 97  | 9  | 702  | 873  |
| 291 | 81 | 90  | 14 | 1134 | 1260 |
| 292 | 82 | 84  | 7  | 574  | 588  |
| 293 | 79 | 88  | 19 | 1501 | 1672 |
| 294 | 89 | 93  | 16 | 1424 | 1488 |
| 295 | 80 | 88  | 19 | 1520 | 1672 |
| 296 | 79 | 91  | 13 | 1027 | 1183 |
| 297 | 80 | 95  | 13 | 1040 | 1235 |
| 298 | 80 | 88  | 11 | 880  | 968  |
| 299 | 84 | 89  | 13 | 1092 | 1157 |
| 300 | 80 | 85  | 12 | 960  | 1020 |
| 301 | 79 | 85  | 10 | 790  | 850  |
| 302 | 87 | 91  | 14 | 1218 | 1274 |
| 303 | 77 | 87  | 18 | 1386 | 1566 |
| 304 | 83 | 102 | 14 | 1162 | 1428 |
| 305 | 67 | 80  | 12 | 804  | 960  |
| 306 | 81 | 98  | 15 | 1215 | 1470 |
| 307 | 76 | 90  | 15 | 1140 | 1350 |
| 308 | 81 | 88  | 11 | 891  | 968  |
| 309 | 75 | 98  | 19 | 1425 | 1862 |
| 310 | 78 | 89  | 17 | 1326 | 1513 |
| 311 | 82 | 72  | 14 | 1148 | 1008 |
| 312 | 89 | 82  | 7  | 623  | 574  |
| 313 | 81 | 88  | 18 | 1458 | 1584 |
| 314 | 78 | 94  | 5  | 390  | 470  |
| 315 | 86 | 84  | 12 | 1032 | 1008 |
| 316 | 84 | 89  | 16 | 1344 | 1424 |
| 317 | 83 | 88  | 15 | 1245 | 1320 |
| 318 | 88 | 95  | 5  | 440  | 475  |
| 319 | 84 | 85  | 19 | 1596 | 1615 |
| 320 | 84 | 91  | 5  | 420  | 455  |
| 321 | 90 | 82  | 12 | 1080 | 984  |
| 322 | 80 | 75  | 5  | 400  | 375  |
| 323 | 85 | 103 | 13 | 1105 | 1339 |

|     |    |     |    |      |      |
|-----|----|-----|----|------|------|
| 324 | 89 | 102 | 14 | 1246 | 1428 |
| 325 | 81 | 91  | 12 | 972  | 1092 |
| 326 | 78 | 85  | 17 | 1326 | 1445 |
| 327 | 87 | 88  | 19 | 1653 | 1672 |
| 328 | 77 | 85  | 8  | 616  | 680  |
| 329 | 74 | 96  | 5  | 370  | 480  |
| 330 | 78 | 92  | 9  | 702  | 828  |
| 331 | 82 | 94  | 12 | 984  | 1128 |
| 332 | 84 | 106 | 6  | 504  | 636  |
| 333 | 81 | 97  | 8  | 648  | 776  |
| 334 | 82 | 80  | 15 | 1230 | 1200 |
| 335 | 88 | 94  | 5  | 440  | 470  |
| 336 | 76 | 89  | 17 | 1292 | 1513 |
| 337 | 78 | 92  | 19 | 1482 | 1748 |
| 338 | 83 | 92  | 12 | 996  | 1104 |
| 339 | 77 | 97  | 19 | 1463 | 1843 |
| 340 | 86 | 87  | 20 | 1720 | 1740 |
| 341 | 82 | 85  | 11 | 902  | 935  |
| 342 | 90 | 95  | 8  | 720  | 760  |
| 343 | 85 | 83  | 15 | 1275 | 1245 |
| 344 | 82 | 92  | 12 | 984  | 1104 |
| 345 | 82 | 87  | 13 | 1066 | 1131 |
| 346 | 88 | 91  | 20 | 1760 | 1820 |
| 347 | 82 | 92  | 17 | 1394 | 1564 |
| 348 | 88 | 89  | 9  | 792  | 801  |
| 349 | 83 | 89  | 14 | 1162 | 1246 |
| 350 | 80 | 97  | 11 | 880  | 1067 |
| 351 | 78 | 86  | 19 | 1482 | 1634 |
| 352 | 75 | 77  | 12 | 900  | 924  |
| 353 | 76 | 94  | 11 | 836  | 1034 |
| 354 | 78 | 85  | 17 | 1326 | 1445 |
| 355 | 73 | 109 | 20 | 1460 | 2180 |
| 356 | 87 | 88  | 6  | 522  | 528  |
| 357 | 82 | 85  | 15 | 1230 | 1275 |
| 358 | 81 | 87  | 5  | 405  | 435  |
| 359 | 78 | 91  | 6  | 468  | 546  |
| 360 | 81 | 97  | 13 | 1053 | 1261 |
| 361 | 81 | 88  | 9  | 729  | 792  |
| 362 | 84 | 94  | 8  | 672  | 752  |
| 363 | 80 | 99  | 7  | 560  | 693  |
| 364 | 80 | 85  | 5  | 400  | 425  |

|  |  |  |  |        |        |
|--|--|--|--|--------|--------|
|  |  |  |  | 377100 | 407684 |
|--|--|--|--|--------|--------|

Dengan:

$$b_1 = 0,128$$

$$b_2 = 0,104$$

$$R^2 = 0,374$$

$$b_1 \sum X1Y = 52838,9$$

$$b_2 \sum X2Y = 45070,0$$

$$\begin{aligned} JK_{reg} &= b_1 \sum X1Y + b_2 \sum X2Y \\ &= 97908,9 \end{aligned}$$

Sehingga:

$$SR_1 = \frac{b_1 \sum X1Y}{JK_{reg}} \times 100\% = 53,97\%$$

$$SR_2 = \frac{b_2 \sum X2Y}{JK_{reg}} \times 100\% = 46,03\%$$

$$SR_{12} = SR_1 + SR_2 = 100\%$$

$$SE_1 = SR_1 \times R^2 = 20,18\%$$

$$SE_2 = SR_2 \times R^2 = 17,22\%$$

$$SE_{12} = SE_1 + SE_2 = 37,40\%$$



**Lampiran 44****Dokumentasi****1. UJI COBA INSTRUMEN DI SMA NEGERI 3 SINGARAJA**



## 2. PENGAMBILAN DATA DI SMA NEGERI 2 SINGARAJA





### 3. PENGAMBILAN DATA DI SMA NEGERI 4 SINGARAJA



### 3. PENGAMBILAN DATA DI SMA NEGERI 1 SINGARAJA






**පිළිතුරු පිටපත**  
**PEMERINTAH PROVINSI BALI**  
**ආබාධිත ශිෂ්ටාචාර ක්ෂේත්‍රය**  
**DINAS PENDIDIKAN, KEMUDAAN DAN OLAHRAGA**  
**ශ්‍රී ලංකා විද්‍යා මණ්ඩලය**  
**SMA NEGERI 1 SINGARAJA**


ශ්‍රී ලංකා විද්‍යා මණ්ඩලයේ පිහිටි ශ්‍රී ලංකා විද්‍යා මණ්ඩලයේ පිහිටි ශ්‍රී ලංකා විද්‍යා මණ්ඩලයේ  
 Alamat: Jalan Pramuka No. 4 Singaraja, Telp. (0362) 22144, Fax (0362) 32193  
 අප විද්‍යා මණ්ඩලයේ පිහිටි ශ්‍රී ලංකා විද්‍යා මණ්ඩලයේ පිහිටි ශ්‍රී ලංකා විද්‍යා මණ්ඩලයේ  
 Email : info@smansingaraja.sch.id

**SURAT KETERANGAN**  
**Nomor : B.31.420/1792/SMAN 1 SGR/DISDIKPORA**

Yang bertanda tangan di bawah ini :

Nama : Made Sri Astiti, S.Pd., M.Pd.  
 NIP : 196808241997022003  
 Jabatan : Kepala SMA Negeri 1 Singaraja

Dengan ini menerangkan dengan sebenarnya bahwa mahasiswa berikut :

Nama : Chatarina Ni Nyoman Fergina  
 NIM : 1913021028  
 Prodi : Pendidikan Fisika  
 Fakultas : Matematika dan Ilmu Pengetahuan Alam  
 Universitas : Universitas Pendidikan Ganesha  
 Judul Penelitian : Hubungan Kondisi Ekonomi Keluarga dan Kedisiplinan Fisika Siswa Kelas XI IPA Terhadap Hasil Belajar Fisika di Sekolah SMA Negeri sc-Kota Singaraja

Memang benar telah melakukan pengumpulan data penelitian untuk skripsi di SMAN 1 Singaraja.

Demikian surat keterangan ini dibuat dengan sebenarnya untuk dapat digunakan sebagaimana mestinya.

Singaraja, 30 Agustus 2023  
 Kepala Sekolah,  
  
  
 Made Sri Astiti, S.Pd., M.Pd.  
 Pembina Tk.I/IVb  
 NIP. 19680824 199702 2 003





### SURAT KETERANGAN

Nomor : B.31.422/363/SMAN 3 SINGARAJA/DIKPORA

Yang bertanda tangan di bawah ini :

Nama : Dr. I Putu Eka Wilantara, M. Pd  
 NIP : 19740718 199903 1 005  
 Jabatan : Kepala SMA Negeri 3 Singaraja

Menerangkan dengan sebenarnya bahwa :

Nama : Chararina Ni Nyoman Fergina  
 NIM : 1913021028  
 Tempat/Tanggal Lahir : Sidoarjo, 04 Februari 2001  
 Program Studi : Pendidikan Fisika  
 Instansi : Universitas Pendidikan Ganesha

Memang benar telah melaksanakan Kegiatan Penelitian Pengambilan Data di SMA Negeri 3 Singaraja, pada tanggal 1 Juli s/d 30 Agustus 2023

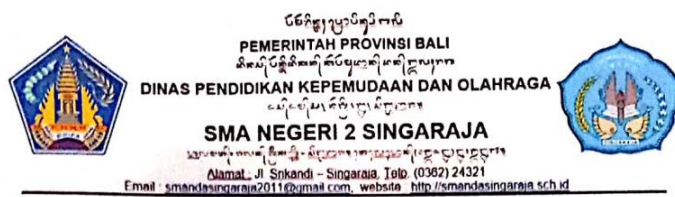
Demikian Surat Keterangan ini dibuat dengan sebenarnya untuk dapat dipergunakan sebagaimana mestinya.

Ditetapkan di : Bali  
 Pada tanggal : 30 Agustus 2023

|   |  |
|---|--|
|  | <p>Ditandatangani secara elektronik oleh :<br/>         Kepala SMA Negeri 3 Singaraja</p> <p><b>Dr. I Putu Eka Wilantara, M.Pd</b><br/>         NIP. 19740718 199903 1 005</p> |
|---|--|



Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan oleh BSrE



**SURAT KETERANGAN PENELITIAN**  
**Nomor : B.31.421.7/2741/SMAN 2 SGR/DIKPORA**


Yang bertanda tangan di bawah ini Kepala SMA Negeri 2 Singaraja menerangkan bahwa :

Nama : Chatarina Ni Nyoman Fergina  
 NIM : 1913021028  
 Fakultas : Matematika dan Ilmu Pengetahuan Alam  
 Universitas : Universitas Pendidikan Ganesha.

Memang benar mahasiswa yang telah disebutkan di atas telah melaksanakan penelitian di SMA Negeri 2 Singaraja, dengan Judul **“Hubungan Kondisi Ekonomi Keluarga dan Kedisiplinan Siswa Terhadap Hasil Belajar Fisika Siswa Kelas XI IPA di Kota Singaraja”** pada tanggal 1 Juli s/d 30 Agustus 2023

Demikian surat keterangan ini dibuat untuk dapat dipergunakan sebagaimana mestinya.

Dikeluarkan di Singaraja  
Pada tanggal, 30 Agustus 2023


 Ditandatangani Secara Elektronik Oleh:  
 Kepala SMA Negeri 2 Singaraja  
**Dr. I Made Bawa Mulana, S.Pd., M.Pd.**  
 NIP. 19781130 200312 1 009



Kementerian  
 Pendidikan dan  
 Kebudayaan

Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan oleh BSR E

**Lampiran 46****RIWAYAT HIDUP**

Chatarina Ni Nyoman Fergina lahir di Sidoarjo tanggal 4 Februari 2001. Penulis merupakan anak ke-3 dari pasangan suami istri Yohanes I Wayan Suryadhi dan Maria Fresti Kusumawardani. Penulis berkebangsaan Indonesia dan beragama Khatolik. Saat ini Penulis tinggal di Perum TNI AL, Kecamatan Candi, Kabupaten Sidoarjo, Jawa Timur.

Penulis menyelesaikan pendidikan dasar di SD Negeri Pucang 1 selama 6 tahun (2007-2013), pendidikan menengah pertama di SMP Negeri 6 Sidoarjo selama 3 tahun (2013-2016), dan pendidikan menengah atas di SMA Negeri 1 Waru dengan jurusan MIPA (Matematika dan Ilmu Pengetahuan Alam) selama 3 tahun (2016-2019). Penulis melanjutkan pendidikan Strata 1 (S1) Pendidikan Fisika di Universitas Pendidikan Ganesha. Pada semester akhir tahun 2023 ini, penulis telah menyelesaikan skripsi dengan judul “Hubungan Antara Kondisi Ekonomi Keluarga dan Kedisiplinan dengan Hasil Belajar Fisika Siswa Kelas XI MIPA SMA Negeri di Kota Singaraja”. Selanjutnya dari tahu 2019 sampai dengan penulisan skripsi ini, penulis masih terdaftar sebagai mahasiswa Program S1 Pendidikan Fisika di Universitas Pendidikan Ganesha.