

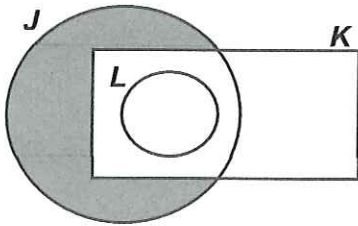
JABATAN PENDIDIKAN NEGERI MELAKA

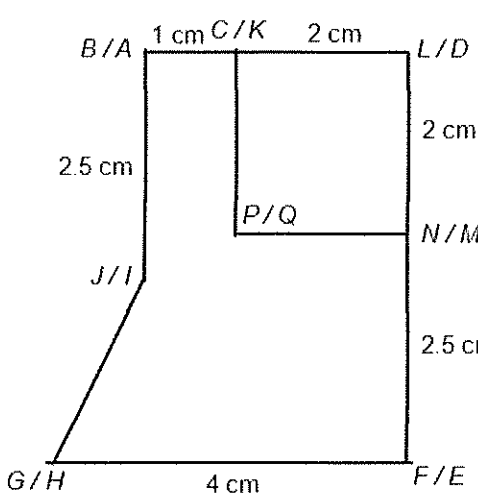
PERATURAN PEMARKAHAN
UJIAN DIAGNOSTIK 3 TAHUN 2024
TINGKATAN 5

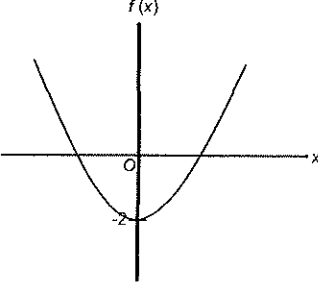
MATEMATIK KERTAS 1 (1449/1)

| Soalan | Jawapan | Soalan | Jawapan | Soalan | Jawapan | Soalan | Jawapan |
|--------|---------|--------|---------|--------|---------|--------|---------|
| 1 | C | 11 | A | 21 | B | 31 | B |
| 2 | A | 12 | C | 22 | A | 32 | A |
| 3 | C | 13 | D | 23 | D | 33 | D |
| 4 | B | 14 | A | 24 | A | 34 | B |
| 5 | A | 15 | D | 25 | D | 35 | A |
| 6 | D | 16 | B | 26 | B | 36 | C |
| 7 | D | 17 | A | 27 | B | 37 | D |
| 8 | C | 18 | D | 28 | A | 38 | B |
| 9 | B | 19 | B | 29 | C | 39 | D |
| 10 | D | 20 | C | 30 | C | 40 | A |

MATEMATIK KERTAS 2 (1449/2)

| Soalan | Peraturan Pemarkahan | Markah | |
|---------------------|--|-------------|---|
| 1 (a) (b) | (6, 4) $\left(\frac{x+6}{2}, \frac{y+4}{2}\right) = (0, 1)$ <u>atau</u> setara (-6, -2) <u>Nota :</u> Terima jawapan tanpa kerja, beri 2 markah | 1 1 1 | 3 |
| 2 (a) (b) | {1, 2, 4, 6, 7}  <u>Nota :</u> ($J \cup L$) dilihat, beri 1 markah | 1 2 | 3 |
| 3 (a) (b) (c) | 16 ialah nombor genap dan kuasa dua sempurna Kuat dan meyakinkan Segi tiga tidak mempunyai pepenjur | 1 1 1 | 3 |

| Soalan | Peraturan Pemarkahan | Markah | |
|-------------------------|--|--|----------|
| <p>4 (a)</p> <p>(b)</p> | $\left(\frac{75}{100} \times 1839.50\right) - \left(\frac{30}{100} \times 1379.63\right) \text{ atau setara}$ <p><u>Nota :</u></p> $\frac{75}{100} \times 1839.50 \text{ atau } \frac{30}{100} \times 1379.63 \text{ atau } 1379.63 \text{ atau } 413.89,$ <p>beri 1 markah</p> <p>965.74</p> <p>200 000 – 8 000</p> <p>192 000</p> | <p>2</p> <p>1</p> <p>1</p> <p>1</p> | <p>5</p> |
| <p>5 (a)</p> <p>(b)</p> |  <p>Bentuk betul heptagon $BJGFNPC$ dan segi empat $CPNL$ $GF > FN = BJ > CP = NP = NL = LC > BC$ Ukuran betul ± 0.2 cm dan sudut pada bucu = $90^\circ \pm 1^\circ$</p> | <p>1</p> <p>1</p> <p>1</p> <p>1</p> | <p>4</p> |
| <p>6</p> | $x + y = 34 \text{ atau } 3x + y = 82$ $\begin{pmatrix} 1 & 1 \\ 3 & 1 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 34 \\ 82 \end{pmatrix} \text{ atau setara}$ $\begin{pmatrix} x \\ y \end{pmatrix} = \frac{1}{1(1)-1(3)} \begin{pmatrix} 1 & -1 \\ -3 & 1 \end{pmatrix} \begin{pmatrix} 34 \\ 82 \end{pmatrix} \text{ atau setara}$ <p>$x = 24$</p> <p>$y = 10$</p> <p><u>Nota :</u></p> $\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 24 \\ 10 \end{pmatrix} \text{ sebagai jawapan akhir, beri 1 markah}$ | <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> | <p>5</p> |

| | | | |
|-----------|---|------------------|----------|
| 7 (a) |  | 1 | |
| 7 (b) | $\pi x^2 \times 6 = (37x + 35)\pi$ $6x^2 - 37x - 35 = 0$ $(x - 7)(6x + 5) = 0$ $x = 7$ | 1 1 1 1 | 5 |
| 8 (a) | $\frac{1}{2}, \frac{3}{4}, (B, B), (M, M)$ | 1 | |
| 8 (b)(i) | $\frac{3}{10}$ | 1 | |
| 8 (b)(ii) | $\frac{3}{5} \times \frac{1}{2} + \frac{2}{5} \times \frac{3}{4}$ | 1 | |
| | $\frac{3}{5}$ | 1 | 4 |
| 9 (a) | 8.975 | 1 | |
| | <u>Nota :</u> | | |
| | Terima $\frac{8.4+9.5+7.2+9.9+9.8+8.7+9.4+8.9}{8}$, beri 1 markah. | | |
| | $\sigma = \sqrt{\frac{8.4^2 + 9.5^2 + 7.2^2 + 9.9^2 + 9.8^2 + 8.7^2 + 9.4^2 + 8.9^2}{8} - 8.975^2}$ | 1 | |
| | 0.8333 | 1 | |
| 9 (b) | 0.7106 | 1 | |
| | Hakim lebih konsisten kerana sisihan piawainya lebih kecil | 1 | 5 |
| 10 | $35\,000 \times \frac{2.5}{100} \times 7$ <u>atau</u> $35\,000 \times \frac{3}{100} \times 7$ | 1 | |
| | 6 125 dan 7 350 | 1 | |
| | Bank Raya kerana faedah lebih tinggi | 1 | 3 |