**PEPERIKSAAN PERTENGAHAN TAHUN 2016**

**MATEMATIK TINGKATAN 1**

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| **SOALAN 1** | | |
| 1(a) | |  |  |  |  | | --- | --- | --- | --- | | (a) | 783 500 | Ratus ribu yang hampir | 800 000 ----- P1 | | (b) | 642 350 | Ribu yang hampir | 642 000 ----- P1 |     ----- N1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 2 |  |  |  | | --- | --- | |  |  | |  | 2 | |
| (b) | K1  ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c) | ----- K1  *atau*  P1 ----- Ya. Paip yang dibekalkan itu mencukupi kerana panjang paip yang digunakan tidak melebihi 750 m iaitu hanya 560 m sahaja. ----- N1  *atau*  P1 ----- Ya. Paip yang dibekalkan itu mencukupi kerana bilangan paip yang diperuntukkan melebihi 80 batang iaitu 107 batang. ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |

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| **SOALAN 2** | | |
| 2(a) | P1   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | (i) | 22 | • |  | • | Nombor ganjil | |  |  |  |  |  |  | | (ii) | 21 | • | P1 | • | Nombor perdana | |  |  |  | P1 |  |  | | (iii) | 2 | • |  | • | Nombor genap | | |  |  | | --- | --- | |  |  | |  | 3 | |
| (b) | ----- P1    ----- N1  ----- P1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c)  K1 ----- | GSTK =  2  =   |  |  |  |  | | --- | --- | --- | --- | | |  | | --- | | 8  8 | | 8, | 16  ----- K1 | | 2 | 1, | |  | | --- | | 2  ----- K1  ----- N1  16 | | |  | 1, | 1 | | |  |  | | --- | --- | |  |  | |  | 4 | |

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| **SOALAN 3** | | |
| 3(a) | P1 -----  ----- P1   |  |  | | --- | --- | | (a) | (b) | | P1 | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  |   P1 | | |  |  | | --- | --- | |  |  | |  | 2 |  |  |  | | --- | --- | |  |  | |  | 2 | |
| (b) | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 2 | 12, | 20 |  | 2 | 12, | 20 | | 2 | 6, | 10 |  | 2 | 6, | 10 | | 3 | 3, | 5 |  |  | 3, | 5 | | 5 | 1, | 5 |  |  |  |  | |  | 1, | 1 |  |  |   dan  ----- K1    ----- N1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c) | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | (i) |  | • | P1  P1 | • | Pecahan wajar | | (ii) |  | • | P1 | • | Nombor bercampur | | (iii) |  | • |  | • | Pecahan tak wajar | | |  |  | | --- | --- | |  |  | |  | 3 | |

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| **SOALAN 4** | | |
| 4(a) | *P* :  *atau*  ----- P1  *Q* :  *atau*  ----- P1  *R* :  *atau*  ----- P1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (b) | ----- N1  ]  *atau*  ----- K1    27  ----- K1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 4 | |
| (c)  K1 ----- | K1    *atau*  ----- N1  ----- K1  ----- N1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 3 | |

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| **SOALAN 5** | | |
| 5(a) | P1   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | (i) |  | • |  | • | 4.8 | |  |  |  | P1 |  |  | | (ii) |  | • |  | • | 480 | |  |  |  | P1 |  |  | | (iii) |  | • |  | • | 48 | | |  |  | | --- | --- | |  |  | |  | 3 | |
| (b) | ----- P1  ----- P1  Tertib menaik: ----- P1   1. Tertib menurun: 3.78, 3.078, 0.837, 0.738, 0.387, 0.378 ----- P1 | |  |  | | --- | --- | |  |  | |  | 3 |  |  |  | | --- | --- | |  |  | |  | 1 | |
| (c) | 1. Satu tempat perpuluhan : 5.9 ----- P1 2. Dua tempat perpuluhan : 5.92 ----- P1 3. Tiga tempat perpuluhan : 5.918 ----- P1 | |  |  | | --- | --- | |  |  | |  | 3 | |

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| **SOALAN 6** | | |
| 6(a) | ----- K1    ----- N1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (b) | ----- K1    ----- N1    ----- N1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 4 | |
| (c) | K1  ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| **SOALAN 7** | | |
| 7(a) | 250  ----- P1  *atau*  5  25  ----- N1  ----- K1  ----- K1  2.5 | |  |  | | --- | --- | |  |  | |  | 4 | |
| (b) | ----- N1  ----- K1  ----- P1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c) | K1  ----- K1    ----- N1  *atau*  K1  ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| **SOALAN 8** | | |
| 8(a) | 1. *atau*  ----- P1 2. ----- P1 3. ----- P1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (b) | ----- K1  ----- N1  *atau*    ----- N1  ----- K1        ----- K1  ----- N1 | |  |  | | --- | --- | |  |  | |  | 2 |  |  |  | | --- | --- | |  |  | |  | 2 | |
| (c) | ***Catatan:*** Harga setelah diskaun bagi 2 kipas betul ----- P1  Harga setelah diskaun bagi 4 kipas betul ----- P2  ----- N1  Kipas *P* paling murah setelah diskaun. | |  |  | | --- | --- | |  |  | |  | 3 | |

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| **SOALAN 9** | | |
| 9(a) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | (i) | -5 | < | 5 | ----- P1 | |  |  |  |  |  | | (ii) | 0 | > | -1 | ----- P1 | |  |  |  |  |  | | (iii) | -10 | > | -15 | ----- P1 | |  |  |  |  |  | | (iv) | -9 | < | -8 | ----- P1 | | |  |  | | --- | --- | |  |  | |  | 4 | |
| (b) | *D* : -8 ----- P1  *E* : 2 ----- P1  *F* : 6 ----- P1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c) | ----- N1  ----- K1  ----- P1  1  -5  +3 | |  |  | | --- | --- | |  |  | |  | 3 | |

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| **SOALAN 10** | | |
| 10(a) | 1. Tertib menaik: -5, -2, 0, 6 dan 9 ----- P1 2. Nombor terbesar = 9 ----- P1   Nombor terkecil = -5 ----- P1  ----- N1 | |  |  | | --- | --- | |  |  | |  | 1 |  |  |  | | --- | --- | |  |  | |  | 3 | |
| (b) | K1  ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c) | K1  ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |