**PEPERIKSAAN PERTENGAHAN TAHUN 2016**

**MATEMATIK TINGKATAN 2**

|  |  |  |
| --- | --- | --- |
| **SOALAN 1** | | |
| 1(a) | 1. Nilai terbesar = 7 531 ----- P1   Nilai terkecil = 1 357 ----- P1  ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 2 |  |  |  | | --- | --- | |  |  | |  | 2 | |
| (b) | |  |  |  | | --- | --- | --- | | (i) | 87 ialah nombor perdana. | 🗶 ----- P1 | | (ii) | 36 ialah gandaan sepunya bagi 9 dan 12. | ✓ ----- P1 | | (iii) | 2, 3 dan 6 merupakan faktor perdana bagi 18. | 🗶 ----- P1 | | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c) | K1    ----- K1  ----- N1  *atau*  K1    ----- N1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 3 | |

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| **SOALAN 2** | | |
| 2(a) | |  |  |  | | --- | --- | --- | |  | **Perpuluhan** | **Peratusan** | | (i) | 3.05 | 305% ----- P1 | | (ii) | 0.55 ----- P1 | 55% | | (iii) | 0.02 | 2% ----- P1 | | (iv) | 2.75 ----- P1 | 275% | | |  |  | | --- | --- | |  |  | |  | 4 | |
| (b) | ----- K1  ----- K1  ----- N1    *atau*  K1  ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c) | ----- P1   1. Tertib menaik: -18, -5, -2, -1, 13, 14   ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 1 |  |  |  | | --- | --- | |  |  | |  | 2 | |

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| --- | --- | --- |
| **SOALAN 3** | | |
| 3(a) | ----- K1    ----- K1  ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (b) | ----- K1    ----- N1  ----- N1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 4 | |
| (c)  K1 ----- | ----- K1  *atau*  ----- P1  ----- N1  ----- P1  ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |

|  |  |  |
| --- | --- | --- |
| **SOALAN 4** | | |
| 4(a) | ----- K1  ----- K1    ----- N1  ----- N1 | |  |  | | --- | --- | |  |  | |  | 4 | |
| (b) | ----- K1  ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c) | K1  K1    ----- N1  *atau*  K1  K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |

|  |  |  |
| --- | --- | --- |
| **SOALAN 5** | | |
| 5(a) | N1 -----  ----- K1  ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (b) | *atau*  ----- N1  ----- K1    *atau*  ----- N1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 4 | |
| (c) | K1  K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |

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| --- | --- | --- |
| **SOALAN 6** | | |
| 6(a) | |  |  |  |  | | --- | --- | --- | --- | | (i) |  | ✓ | ----- P1 | | (ii) |  | ✓ | ----- P1 | | (iii) |  |  | ----- P1 | | |  |  | | --- | --- | |  |  | |  | 3 | |
| (b) | ----- N1    ----- K1  2  3  ----- K1  ----- K1  27 | |  |  | | --- | --- | |  |  | |  | 4 | |
| (c) | ----- K1    ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| **SOALAN 7** | | |
| 7(a) | P1   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | (i) |  | • | P1 | • | 2 | | (ii) |  | • | P1 | • | 3 | | (iii) |  | • |  | • | 4 | | |  |  | | --- | --- | |  |  | |  | 3 | |
| (b) | ----- P1      ----- P1      ----- P1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c) | ----- N1  ----- K1    ----- N1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 4 | |

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| --- | --- | --- |
| **SOALAN 8** | | |
| 8(a) | 1. B.   ----- N1  ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 1 |  |  |  | | --- | --- | |  |  | |  | 2 | |
| (b) | ----- N1  ----- K1    ----- N1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 4 | |
| (c) | ----- P1  ----- K1  ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| **SOALAN 9** | | |
| 9(a) | ----- K1  ----- N1    ----- N1  ----- K1 | |  |  | | --- | --- | |  |  | |  | 2 |  |  |  | | --- | --- | |  |  | |  | 2 | |
| (b) | *v* : 49 ----- P1  *w* : 14 ----- P1  *x* : 28 ----- P1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c) | ----- N1  ----- K1  ----- P1  *atau*    ----- N1  ----- K1  ----- P1 | |  |  | | --- | --- | |  |  | |  | 3 | |

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| --- | --- | --- |
| **SOALAN 10** | | |
| 10(a) | |  |  |  | | --- | --- | --- | | (i) |  | ----- P1 | | (ii) |  | ----- P1 | | (iii) |  | ----- P1 | | |  |  | | --- | --- | |  |  | |  | 3 |   **KERTAS SOALAN TAMAT** |
| (b) | ----- K1  ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 3 | |
| (c) | ----- K1  ----- P1    ----- K1    ----- N1 | |  |  | | --- | --- | |  |  | |  | 4 | |