**Panduan Penskoran**

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| No. soalan |  | Penyelesaian dan jawapan | Sub markah | Jumlah Markah |
| 1. | a) | , , Nota : Lebih daripada 3 jawapan, P0 | P1P1P1 | 3 |
| b) | 1. $-\frac{27}{5}-\frac{9}{10}$

 $ -\frac{63}{10}@-6\frac{3}{10}$ @ setara1. $-0.4+0.36$

$-0.04$  | K1N1K1N1 | 4 |
| c) | 8m8m4(i) Luas kolam ikan/ *Area of the fish pond* = (8 x 8) - (x 4) @ (64 – 32)m2  = 32 m2Luas kawasan yang ditanam dengan pokok bunga/ *Area ot region planted with flower plants*=  = 32 cm2(ii) Luas kolam ikan dan luas kawasan yang ditanam dengan pokok bunga adalah **sama**.*The area of fish pond and the area of the region planted with flower plants are the* ***same*****Nota: Terima jawapan yang munasabah** | K1N1N1 | 3 |
| 2. | a) | (i) *xz2*(ii) –3*z2*(iii) –3*x2y* | P1P1P1 | 3 |
| b) | 4x = 99° + x 4x – x = 99° @ 3x = 99°x = 33° | K1K1N1 | 3 |
| c) | 4 + 2x +18 + 2y = 40 @ 22 + 2x + 2y = 40 @2x + 9y = 46$22 +2(\frac{46 - 9y}{2}) + 2y$ = 40*x* = 5 *y* = 4 | K1K1N1N1 | 4 |
| 3. | a) | -+- Nota :tidak terima jawapan dalam perkataan | N1N1N1 | 3 |
| b) | x = 180 – 60x = 120 | K1N1 | 2 |
| c) | Imej bagi objek PImej bagi objek QPentagon | K2K2N1 | 5 |
| 4. | a) |  | P1P1P1 | 3 |
| b) |  (i) 3000 + 7000 + 8000 + 5000 23 000NOTA : Terima jawapan tanpa kerja , K1N1(ii) (8000 – 5000) x RM1.20 @ 3000 x RM1.20  RM 3600 | K1N1K1N1 | 4 |
| c) | $$p =\frac{q}{m}$$$L =\frac{q}{\left(\frac{3}{4}\right)} @ L =\frac{4q}{3}$ $$L =\frac{q}{m +\frac{3}{4}}$$ |  | K1K1N1 | 3 |
| 5. | a) | (i) (ii) x(ii)  | P1P1P1 |  |
| b) | i)  Binaan sudut 120° Binaan panjang QR = 6 cmSisi empat lengkap PQRS(ii) ∠*PSR* = 127°$\pm $1°  | K1K1N1N1 | **4** |
| c) | 1. $S=$Titiktengah$PR$

$$S=\left(\frac{-1+7}{2} , \frac{-1+1}{2}\right)$$$$S= \left(\frac{6}{2} , \frac{0}{2}\right)$$$$S= \left(3 , 0\right)$$1. Jarak $S= \sqrt{\left(3-2\right)^{2}+\left(0-4\right)^{2}}$

 $= \sqrt{1+16}$ $$= \sqrt{17}$$$$= 4.12 unit$$ | K1N1N1 | **3** |
| 6. | a) | $-6+4$ $-4+6$$4-(-6)$ $6-(-4)$$-6-(-4)$ $-4+(-6)$Nota : Lebih daripada 3 jawapan, P0 | P1P1P1 | **3** |
| b) |  @ 8 mLuas ABCD = 6 X 8 @ 48 m2 @ 48 -41.84 = @  @  @8.8m | N1K1N1 | 3 |
| c) | (i) Lokus bagi suatu titik yang bergerak dengan keadaan RS = RX @ RX = RQ.(ii) Lokus bagi suatu titik yang bergerak yang membahagi dua sama sudut PSR @ ∠ PST = ∠ RST | P2P2 | 22 |
| 7. | a) | 1200 @ 12.00 pm1220 @ 12.20 pm @ 3.05 pm1505Nota : Terima tanpa pm | K1K1N1 | 3 |
| b) | $\left[\left(2×200\right)-(3×50)\right]$ @ $\left[\frac{1}{5}×\left(2×200\right)\right]$$580+\left[\left(2×200\right)-(3×50)\right]+\left[\frac{1}{5}×\left(2×200\right)\right]$ @580 + 250 + 80910   | K1K1N1 | 3  |
| c) | (i) Masa perjalanan = - jam + 1 jam + 2 jam  = jam @ 5jam 30 minitWaktu tiba =0815 + 0530 = 1345ii)  Jarak = Laju x Masa Jarak PQ = (80 x 2.5) + (75 x 2) = 200 + 150 = 350 kmMasa perjalanan =  = 5 jamWaktu mula perjalanan = 1345 - 5  = Jam 0845 | K1K1N1 |  |
| 8. | a) |

|  |  |  |
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| *Description: C:\Users\ASPIRE\AppData\Roaming\PixelMetrics\CaptureWiz\LastCaptures\2017-04-01_11-43-11-563.png* | Description: C:\Users\ASPIRE\AppData\Roaming\PixelMetrics\CaptureWiz\LastCaptures\2017-04-01_11-47-23-412.png | Description: C:\Users\ASPIRE\AppData\Roaming\PixelMetrics\CaptureWiz\LastCaptures\2017-04-01_11-47-56-716.png |
| Kon /*cone* | Piramid / *pyramid* | Prisma / Prism  |

Nota : Kesalahan ejaan, P0 | P1P1P1 | 3 |
| b) | (i) 12936 cm3(ii) $\frac{2}{3}$ x $\frac{22}{7}$ x 3.53 = 89.8 cm3$\frac{12936 }{89.8 }$ @ 144.05 cawan air145 cawan | N1K1K1N1 | 4 |
| c) | (i) $70\leq m<80$(ii) $20<p\leq 35$(iii) $30\leq d\leq 70$ | N1N1N1 | 3 |
| 9. | a) | 1. Mengikut arah jam
2. 90o
3. Pusat putaran O
 | N1N1N1 | 3 |
| b) | **(i)** 1 : 25000(ii) 24 cm x 25000 600000 cm 6 km | N1K1K1N1 | 4 |
| c) | 62 X 28 @ 1736 @ setara1750 – 1736 @ 14 @ setaraMencukupi kerana masih ada lebihan baja 14g | K1K1N1 | 3 |
| 10. | a) |  | P1P1P1 | 3 |
| b) | = $3^{4}$= $-2-\left(-3\right)@-2+3$= $\frac{2}{9}$ | K1K1N1 | 3 |
| c) | *p* = 6 | N1 |  |

1. Semua titik diplot dengan tepat

 Semua titik disambung dengan tepat

*y*

*x*

**1**

**2**

**3**

**-1**

**-2**

**-3**

**0**

**3**

**4**

**5**

**1**

**-2**

**-3**

**6**

**2**

**-1**