**SULIT**



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**MATHEMATICS 50**

**Ogos**

**2011**

**MATHEMATICS**

PERATURAN PEMARKAHAN

**ANSWER**

**MATHEMATICS PAPER 1**

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

**MARKING SCHEME**

**MATHEMATICS PAPER 2**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Solution and Mark Scheme** | **Sub Mark** | **Full Mark** |
| **1** |  | K1  N1 | **2** |
| **2** | 1.12  16.88 | K1  N1 | **2** |
| **3** | (a) 0.7  (b)  1 | N1  K1  N1 | **3** |
| **4** | (a) 6  (b) 3*k* =24 or equivalent  8 | N1  K1  N1 | **3** |
| **5** | Notes:  i. Award N1 if any two sides drawn correctly or  correct image drawn using dotted lines or  Correct image drawn by sketching  ii. Ignore labels. | N2 | **2** |
| **6** | Note: Award N1 if only (0, 2) is written. | N2 | **2** |
| **7** | *x* ≤ 3  *x >* -1  0,1,2,3 | K1  K1  N1 | **3** |
| **8** |  | K1  K1    N1 | **3** |
| **9** | All 4 sides of the polygon correctly drawn  Notes :   1. 2 or 3 lines correctly drawn – award N2. 2. Sketch – deduct 1 mark from N3. | N3 | **3** |
| **10** | 5-1 x 22 | K1  N1 |  |
| **11** | p-6  p2 | K1  N1 |  |
| **12** | (a) 9(a – 5)  (b) 7(x – y) – y(x – y)  (7 – y) (x – y) | K1  K1  N1 | **3** |
| **13** | (a) PR  Line PR drawn on the diagram.-------award P1.  (b) (i) Locus X  (ii) Locus Y  (c) Intersection correctly shown | P2  K1  K1  N1 | **5** |
| **14** |  | K1  K1  N1 | **3** |
| **15** | (a) 3p + 10  (b) x2 + 2xy + y2  6y2 – x2 | K1  K1  N1 | **3** |
| **16** | a)   |  |  |  | | --- | --- | --- | | Children | Tally | Frequency | | 1 | //// | 4 | | 2 | //// // | 7 | | 3 | //// //// | 9 | | 4 | //// / | 6 | | 5 | //// | 4 |   b)  20% | K1  K1  N1 | **3** |

|  |  |  |  |
| --- | --- | --- | --- |
| **17** | AB = 12 or BC = 9 seen  21 | K1  N1 | **2** |
| **18** | (a) 40    (b) Uniform scale for range from 20 to 60.  All 5 points correctly plotted  Notes:  i. Allow K2 if points are not plotted but line graph passes through  all the 5 correct points.  ii. 3 or 4 correctly plotted or line graph passes through 3 or 4 points  award K1.    Line graph passes through 5 correct points.  Note: Sketch or dotted line - N0. | N1  K1  K2  N1 | **5** |
| **19** | 1. Construct the bisector of ∠FEP correctly 2. Construct ∠EFG = 120o at F correctly   Intersection between line FG and EG   1. Complete drawing 2. GH = 6 ± 0.1 cm | K1  K1  N1  N1  N1 | **5** |

|  |  |  |  |
| --- | --- | --- | --- |
| **20** | (a) Uniform scale on the y- axis in the range 0 - 35  (b) All 7 points correctly plotted  Notes:  i. Allow K2 if points are not plotted but curve passes through all the 7  points.  ii. 6 or 5 points plotted correctly or curve passes through 6 or 5 points  award K1.  iii. If scale is not written, but all the points are plotted correctly award  K1K2.  (c) Smooth curve passes through all the 7 points  Note:  For other scale, on the y-axis, deduct 1 mark from the marks  obtained. | K1  K2    N1 | **4** |