|  |
| --- |
| **Grade 7 : Mathematics June Examination 2015**  **Memorandum**  **Exemplar Paper 2** |

**General marking note:**

1. **Give full marks for answers only, unless otherwise stated.**
2. **Accept any alternative correct solution that is not included in the memorandum.**
3. **Apply CA when applicable.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| Section A | | | |
|  |  | Clarification | Mark |
| 1. | B✓ |  | 1 |
| 2. | A✓ |  | 1 |
| 3. | D✓ |  | 1 |
| 4. | D✓ |  | 1 |
| 5. | C✓ |  | 1 |
|  |  |  | **5** |
|  |  |  |  |
| Section B | |  |  |
| 1.1.1 | Line segment✓ |  | 1 |
| 1.1.2 | Parallel lines✓ |  | 1 |
| 1.1.3 | Ray✓ |  | 1 |
| 1.1.4 | Perpendicular lines✓ |  | 1 |
| 1.1.5 | Straight line✓ |  | 1 |
|  |  |  |  |
| 1.2.1 | Isosceles✓ |  | 1 |
| 1.2.2 | Scalene✓ |  | 1 |
|  |  |  |  |
| 1.3.1 | Kite✓ |  | 1 |
| 1.3.2 | EF = 350 mm✓; GH = 160 mm✓ |  | 2 |
|  |  |  |  |
| 1.4.1 | AB – chord✓ |  | 1 |
| 1.4.2 | CD – Diameter✓ |  | 1 |
| 1.4.3 | OD - radius✓ |  | 1 |
|  |  |  |  |
| 1.5 | 7,5 cm✓ |  | 1 |
| 1.6.1 | Angle AEC = 137°✓ |  | 1 |
| 1.6.2 | Angle BEA = 58°✓ |  | 1 |
|  |  |  | **16** |
|  |  |  |  |
| 2.1 | BC II AG or BG II FC or BC II GF✓ |  | 1 |
| 2.2 | CA ┴ BD or BC ┴GF✓ or CE ┴ AB ✓ |  | 1 |
| 2.3.1 | acute✓ |  | 1 |
| 2.3.2 | obtuse✓ |  | 1 |
| 2.3.3 | reflex✓ |  | 1 |
|  |  |  |  |
| 2.4 | 360°✓ - (90 + 75 + 68) ✓  =360 – 233  = 127°✓ |  | 3 |
| 2.5 | 180° - (45 + 31) ✓  = 104°✓ |  | 2 |
|  |  |  | **10** |
|  |  |  |  |
| 3.1 | a- 6 ✓ ; b – 12✓ ; c - 8✓ |  | 3 |
|  |  |  |  |
| 3.2.1 | ( 20 cm + 10 cm ) × 2 = 60 cm ✓✓ |  | 2 |
| 3.2.2 | (400✓ + 173✓ + 346 ✓) cm = 919 cm✓ |  | 4 |
| 3.2.3 | L × b × h ✓ = 1730 cm3✓ |  | 2 |
|  |  |  | **11** |
| 4.1 | Area = s × s✓ = 36 cm2✓ |  | 2 |
| 4.2 | ½×b×h✓ = 27cm2✓ |  | 2 |
| 4.3 | 189 ✓✓– ( 36 + 27) = 126 cm2✓✓ |  | 4 |
|  |  |  | **8** |
|  |  |  |  |
|  |  | Total | 50 |