|  |
| --- |
| **ANNEXURE – C** |
| **DAV PUBLIC SCHOOLS, ODISHA ZONE** |
| **PT-II, SUBJECT: MATHEMATICS, CLASS - VI** |
| **MARKING SCHEME** |
| **QSTN NO.** | **Value Points** | **Marks Allotted** | **PAGE NO. OF TEXT BOOK** |
| 1 | c. 30% | 1 | 99 |
| 2 | b. 25% | 1 | 90 |
| 3 | d. 45n | 1 | 103 |
| 4 | d. Circumference of the circle  | 1 | 203 |
| 5 | a. 6.8cm | 1 | 196 |
| 6 | 0.0255 | 1 | 91 |
| 7 | ₹1200 | 1 | 96 |
| 8 | 4 cm | 1 | 205 |
| 9 | 13 cm – 11 cm = 2 cm | 1 | 201 |
| 10 | 550 | 1 | 208 |
| 11 | Increased salary = 15% of ₹12000 = $\frac{15}{100}$ × ₹12000 = ₹1800New Salary = ₹12000 + ₹1800 = ₹13,800 | 11 | 93 |
| 12 | 8a3= 8 × a × a × a$\left(8a\right)^{3}$ = 8a × 8a × 8aNo, they are not same. | 0.510.5 | 106 |
| 13 | Drawing of circle of radius 3.6cmDrawing its diameterNaming the diameter | 10.50.5 | 200 |
| 14 | Total CP of the mobile phone = ₹12000 + ₹3000  = ₹15,000SP of the mobile phone = ₹17,500So, Profit = ₹17,500 − ₹15,000 = ₹2500Profit % = $\frac{₹2500}{₹15,000}$ ×100 = $\frac{50}{3}$ % | 111 | 94 |
| 15 | Given, a = 1, b = −2, c = −1LHS: 2a – b + c = 2 × 1 – (−2) + (−1) = 2 + 2 – 1 = 3RHS: b2 + ac = (−2)2 + 1 × (−1) = 4 – 1 = 3Hence, LHS = RHS | 1.51.5 | 119 |
| 16 | Drawing a line segment XY = 8 cmDrawing circle of radius 5 cm at X Drawing circle of radius 4 cm at Y Observation: Both of the circles intersect each other at two different points. | 0.5110.5 | 202 |
| 17 | Drawing a line ‘m’Taking a point ‘X’ out of line ‘m’Constructing a perpendicular to line ‘m’ from ‘X’ | 10.51.5 | 212 |
| 18 | Given, Principal = ₹15,000, Rate of interest = 5% p.a. Time period = 3 YearsSimple Interest = $\frac{₹15,000 × 5 × 3}{100}$ = ₹2250Amount = ₹15,000 + ₹2250 = ₹17,250Cost of the dressing table = ₹17,250 − ₹10,000 = ₹7,250 | 211 | 97 |
| 19 | Sum of 9b2 – 3c2 and 2b2 + bc – 2c2  = 9b2 – 3c2 + 2b2 + bc – 2c2 = 9b2 + 2b2 – 3c2 – 2c2 + bc = 11b2 – 5c2 + bcSum of 2b2 – 2bc – c2 and c2 + 2bc – b2  = 2b2 – 2bc – c2 + c2 + 2bc – b2 = 2b2 – b2 – c2 + c2 – 2bc + 2bc = b2Difference = b2 – (11b2 – 5c2 + bc) = b2 – 11b2 + 5c2 – bc  = −10b2 + 5c2 – bc | 1.51.51 | 117 |
| 20 | For correct construction of 900For correct construction of 450For correct construction of $22\frac{1}{2}^{0}$ | 211 | 211 |