

91. P sells a table to Q at a profit of 10% and Q sells it to R at a profit of 12%. If R pays Rs. 246.40 for it, then how much had P paid for it?
- (a) 200.00
 (b) 300.00
 (c) 248.00
 (d) 346.00.
92. The least value of x , for which the expression x^2+x+17 will not give a prime number, is
- (a) 7
 (b) 11
 (c) 13
 (d) 17.
93. A train 300 metres long is running at a speed of 25 meters per second, it will cross a bridge 200 metres long in
- (a) 5 seconds
 (b) 10 seconds
 (c) 20 seconds
 (d) 25 seconds.
94. If 0.06% of a number is 84, then 30% of that number is
- (a) 25.2
 (b) 420
 (c) 42000
 (d) 2520.
95. A sum was divided among P , Q & R . R got double than P who got double than Q . If the difference between the shares of Q and R is Rs. 3675.00, then the sum in rupees is
- (a) 4900
 (b) 8575
 (c) 11025
 (d) 7350.
96. If the ratio of the areas of two squares is 25 : 36, then the ratio of their perimeters is
- (a) 5 : 6
 (b) 25 : 36
 (c) 6:5
 (d) 36 : 25.
97. The denominator of a fraction is greater than its numerator by 11. If 8 is added to both its numerator and denominator, then it becomes A . The fraction is
- (a) 25/26
 (b) 35/26
 (c) 26/35
 (d) 25/36.
98. The value $\frac{1}{x^2} + \frac{1}{y^2}$ where $x=2+\sqrt{3}$ $Y=2-\sqrt{3}$
- (a) 12
 (b) 16
 (c) 14
 (d) 10

- 99.** If the volume of a sphere is divided by its surface area, we obtain 27 cm. The radius of the sphere is
 (a) 9 cm.
 (b) **81 cm.**
 (c) 27 cm.
 (d) 24 cm.
- 100.** One-third of one-fourth of a number is 12. Then the number is
 (a) 96
 (b) **144**
 (c) 108
 (d) 36.
- 101.** In the number series 4, 10, 23, 50, 104, 216, 439 the wrong number is
 (a) 10
 (b) 23
 (c) **104**
 (d) 50.
- 102.** The price of 2 trousers and 4 shirts is Rs. 1,600. With the same amount one can buy 1 trouser and 6 shirts. If one wants to buy 12 shirts, he has to pay
 (a) **Rs. 2400**
 (b) Rs. 4800
 (c) Rs. 1200
 (d) Rs. 3700.
- 103.** if $x = \left(\frac{3}{2}\right)^2 \left(\frac{2}{3}\right)^{-4}$, the value of x^2 is
 (a) **$\left(\frac{2}{3}\right)^{12}$**
 (b) $\left(\frac{3}{2}\right)^{12}$
 (c) $\left(\frac{6}{5}\right)^{-12}$
 (d) $\left(\frac{5}{6}\right)^{-12}$
- 104.** A dealer buys an article for Rs. 380.00. What price should he mark so that after allowing a discount of 5% he still makes a profit of 25% on the article?
 (a) **Rs. 500**
 (b) Rs. 475
 (c) Rs. 95
 (d) Rs. 465.
- 105.** In a factory, the production of scooters rose to 48,400 from 40,000 in 2 years. The rate of growth per annum is
 (a) 20%
 (b) **10%**
 (c) 30%
 (d) 8%
- 106.** If $x + \frac{1}{x} = 3$ find $x^2 + \frac{1}{x^2}$
 (a) 9
 (b) 10
 (c) 27
 (d) **7**

107. When $16x^4 + 12x^3 - 10x^2 + 8x + 20$ is divided by $4x - 3$, the quotient and the remainder are, respectively

- (a) $4x^3 + 6x^2 + 2x$ and $\frac{61}{2}$
- (b) $4x^3 + 6x^2 + \frac{7}{2}$ and $\frac{51}{2}$
- (c) $6x^3 + 2x + \frac{2}{7}$ and $\frac{61}{2}$
- (d) $4x^3 + 6x^2 + \frac{7}{2}$ and $\frac{61}{2}$

108. The sum of two numbers is 2490. If 6.5% of one number is equal to 8.5% of the other, the numbers are

- (a) 1411 and 1079
- (b) 1412 and 1080
- (c) 1141 and 1709
- (d) 1214 and 1800.

109. 120 men had food provision for 200 days. After 5 days, 30 men died of an epidemic. The food will last for further

- (a) 280 days
- (b) 260 days
- (c) 290 days
- (d) 252 days.

110. Out of the total income, X spends 20% on house rent and 70% of the remaining amount on household expenditure. If X saves Rs. 1800, the total income is

- (a) Rs. 8000
- (b) Rs. 9500
- (c) Rs. 7500
- (d) Rs. 8500.