



**(Papers) RRB Group D : Exam Paper & Answer Key Set-3**  
**(Mathematics)**

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76. A man buys 12 articles for Rs. 12/- and sells them at the rate of Rs. 1.25 per article. His gain percentage is

- (a) 20
- (b) 25
- (c) 15
- (d) 18

77. The cost price of 15 articles is same as the selling price of 10 articles. The profit per cent is:

- (a) 30%
- (b) 40%
- (c) 50%
- (d) 45%

78. By selling an article for Rs. 240, a man incurs a loss of 10%. At what price should he sell it, so that he makes a profit of 20% ?

- (a) Rs. 264
- (b) Rs. 288
- (c) Rs. 300
- (d) Rs. 320

**79. A house and a shop were sold for Rs. 1 lakh each. In this transaction, the house sale resulted into 20% loss whereas the shop sale into 20% profit. The entire transaction resulted in**

- (a) no loss no gain
- (b) gain of Rs. 1/24 lakh
- (c) loss of Rs. 1/12 lakh
- (d) loss of Rs.1/18 lakh

**80. If a man estimates his loss as 20% of the selling price, then his loss per cent is**

- (a) 20%
- (b) 25%
- (c) 40/3%
- (d) Data inadequate

**81. If  $x = 1/3y$  and  $Y = 1/2z$ , then  $x : y : z$ , is equal to**

- (a) 3: 2: 1
- (b) 1: 2: 6
- (c) 1: 3: 6
- (d) 2: 4: 6

**82. Divide Rs. 1250 among A, B, C, so that A gets 2/9 of B's share and C gets 4 of A's share.**

- (a) Rs. 200, Rs. 800, Rs. 250
- (b) Rs. 200, Rs. 900, Rs. 150
- (c) Rs. 150, Rs. 800, Rs. 300
- (d) Rs. 200, Rs. 900, Rs. 75

**83. The ratio of two numbers is 3 : 8 and their difference is 115. The smaller of the two numbers is**

- (a) 184
- (b) 194
- (c) 69
- (d) 59

**84. Between two consecutive years my incomes are in the ratio of 2 : 3 and expenses in the ratio 5 : 9. If my income in the second year is Rs. 45000 and my expenses in the first year is Rs. 25000 my total savings for the two years is**

- (a) Nil
- (b) Rs. 15000
- (c) Rs. 10000

(d) Rs. 5000

**85. Rs. 180 contained in a box consists of one rupee, 50 paise and 25 paise coins in the ratio 2 : 3 : 4. What is the number of 50 paise coins?**

(a) 60

(b) 120

(c) 150

(d) 180

**86. Of the three numbers whose average is 60, the first is one fourth of the sum of the others.**

**The first number is**

(a) 30

(b) 36

(c) 42

(d) 45

**87. The average of 11 numbers is 10.8. If the average of the first six be 10.4 and that of the last six is 11.5, then the middle (6th) number is**

(a) 10.3

(b) 12.6

(c) 13.5

(d) 15.5

**88. The average age of 12 players of a team is 25 years. If the captain's age is included, the average age increases by 1 year. The age of the captain is :**

(a) 25 yrs.

(b) 38 yrs.

(c) 36 yrs.

(d) 26 yrs.

**89. The average income of 40 persons is Rs. 4200 and that of another 35 persons is Rs. 4000.**

**The average income of the whole group is:**

(a) Rs. 4100

(b) Rs. 4106 3

(c) Rs. 410623

(d) Rs. 4108 3

**90. The length of the diagonal of a square is 'a' cm. Which of the following represents the area of the square (in sq. cm.) ?**

- (a)  $2a$
- (b)  $a/\sqrt{2}$
- (c)  $a^2/2$
- (d)  $a^2/4$

**91. If the volumes of two cubes are in the ratio 27: 1, the ratio of their edges is**

- (a) 3 : 1
- (b) 27 : 1
- (c) 1 :3
- (d) 1 : 27

**92. The sides of a rectangular plot are in the ratio 5:4 and its area is equal to 500 sq.m. The perimeter of the plot is**

- (a) 80m.
- (b) 100m.
- (c) 90m.
- (d) 95m.

**93. The radius of a wheel is 21 cm. How many revolution will it make in travelling 924 metres?**

- (a) 7
- (b) 11
- (c) 200
- (d) 700

**94. The edges of a cuboid are in the ratio 1 : 2 : 3 and its surface area is  $88\text{cm}^2$ . The volume of the cuboid is:**

- (a)  $120\text{ cm}^3$
- (b)  $64\text{ cm}^3$
- (c)  $48\text{ cm}^3$
- (d)  $24\text{ cm}^3$

**95. The area of a sector of a circle of radius 5 cm, formed by an arc of length 3.5 cm is**

- (a)  $8.5\text{ cm}^2$
- (b)  $8.75\text{ cm}^2$
- (c)  $7.75\text{ cm}^2$
- (d)  $7.50\text{ cm}^2$

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96. Find the length of the largest rod that can be placed in

a room 16m long, 12m broad and  $10\frac{2}{3}$  m. high.

- (a) 23 m.                      (b) 68 m.  
(c)  $22\frac{2}{3}$  m.                  (d)  $22\frac{1}{3}$  m.

97. A solid metallic cone of height 10 cm, radius of base 20 cm is melted to make spherical balls each of 4 cm. diameter. How many such balls can be made ?

- (a) 25  
(b) 75  
(c) 50  
(d) 125

98. The height of a conical tank is 60 cm and the diameter of its base is 64cm. The cost of painting it from outside at the rate of Rs. 35 per sq. m. is

- (a) Rs. 52.00 approx.  
(b) Rs. 39.20 approx.  
(c) Rs. 35.20 approx.  
(d) Rs. 23.94 approx.

99. A cylindrical tank of diameter 35 cm is full of water. If 11 litres of water is drawn off, the water level in the tank will drop by :

- (a)  $10\frac{1}{2}$  cm                  (b)  $12\frac{6}{7}$  cm  
(c) 14 cm.                      (d)  $11\frac{3}{7}$  cm

100. A and B can do a piece of work in 72 days. B and C can do it in 120 days, A and C can do it in 90 days. In how many days all the three together can do the work ?

- (a) 80 days  
(b) 100 days  
(c) 60 days  
(d) 150 days

## ANSWERS :

76. (b) 77. (c) 78. (d) 79. (c) 80. (d) 81. (b) 82. (b) 83. (c)  
84. (d) 85. (b) 86. (b) 87. (b) 88. (b) 89. (c) 90. (c) 91. (a)

92. (c) 93. (d) 94. (c) 95. (b) 96. (c) 97. (d) 98. (d) 99. (d)  
100. (c)

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