(Papers) RRB Group D : Exam Paper & Answer Key Set-5

(Mathematics)

76. $(36)^{\frac{1}{6}}$ is equal to :

   (a) 1   (b) 6

   (c) $\sqrt{6}$ (d) $\sqrt[3]{6}$

77. A common factor of $(13^7 + 11^7)$ and $(13^5 + 11^5)$ is :

   (a) 24   (b) $13^5 + 11^5$

   (c) $13^2 + 11^2$ (d) None of the above

78. If $\log_{10} 2 = 0.3010$ is given, then $\log_2 10$ is equal to:

   (a) 0.3010   (b) 0.6990

   (c) $\dfrac{1000}{301}$ (d) $\dfrac{699}{301}$

79. The value of $\dfrac{(0.03)^2 - (0.01)^2}{0.03 - 0.01}$ is:

   (a) 0.02   (b) 0.004

   (c) 0.4   (d) 0.04

80. The next number of the sequence 3, 5, 9, 17, 33 ... is:

   (a) 65   (b) 60

   (c) 50   (d) 49

81. $64 - \dfrac{2}{3} \times \left(\dfrac{1}{4}\right)^{-2}$ is equal to :

   (a) 1   (b) 2

   (c) $\dfrac{1}{2}$ (d) $\dfrac{1}{16}$

82. The H.C.F. of two numbers is 8. Which one of the following can never be their L.C.M.?

(a) 24

(b) 48

(c) 56

(d) 60

83. If the sum of two numbers is 22 and the sum of their squares is 404, then the product of the numbers is:

(a) 40

(b) 44

(c) 80

(d) 88

84. 1/0.04 is equal to:

(a) 1/40

(b) 2/5

(c) 5/2

(d) 25

85. If $1 \times 2 \times 3 \times ... \times n$ is denoted by $\lfloor n$, then

$\lfloor 8 - \lfloor 7 - \lfloor 6 \rfloor$ is equal to:

(a) $6 \times 8 \times \lfloor 6$ (b) $7 \times 8 \times \lfloor 6$

(c) $6 \times 7 \times \lfloor 8$ (d) $7 \times 8 \times \lfloor 7$

86. The sum of first 20 odd natural numbers is equal to :

(a) 210

(b) 300

(c) 400

(d) 420

87. $\left(\dfrac{8}{125} \right)^{-\frac{4}{3}}$ simplifies to :

(a) $\dfrac{625}{16}$ (b) $\dfrac{625}{8}$ (c) $\dfrac{625}{32}$ (d) $\dfrac{16}{625}$

88. (6.5 × 6.5 − 45.5 + 3.5 × 3.5) is equal to :

(a) 10

(b) 9

(c) 7

(d) 6

89. What number should be subtracted from both terms of the ratio 15 : 19 in order to make it 3 : 4?

(a) 9

(b) 6

(c) 5

(d) 3

90. If p : q = r : s = t : u = 2 : 3, then (mp + nr + ot) : (mq + ns + ou) is equal to :

(a) 1 : 3

(b) 1 : 2

(c) 2 : 3

(d) 3 : 2

91. If a : b = c : d = e : f = 1 : 2, then (pa + qc + re) : (pb + qd + rf) is equal to

(a) p : (q + r)

(b) (p + q) : r

(c) 2 : 3

(d) 1 : 2

92. If x : y = 3 : 1, then $x^3 - y^3 : x^3 + y^3 = ?$

(a) 13 : 14

(b) 14 : 13

(c) 10 : 11

(d) 11 : 10

93. If 10% of m is the same as 20% of n, then m : n is equal to

(a) 2 : 1

(b) 1 : 2

(c) 1 : 10

(d) 1 :20

94. How many sides does a regular polygon have whose interior and exterior angles are in the ratio 2 : 1?

(a) 3

(b) 5

(c) 6

(d) 12

95. The area (in sq.cm.) of the largest circle that can be drawn inside a square of side 28 cm, is

(a) 17248

(b) 784

(c) 8624

(d) 616

96. The circumference of the base of a circular cylinder is 67π cm. The height of the cylinder Is equal to the diameter of the base. How many litres of water can it hold?

(a) 54 π cc

(b) 36π cc

(c) 0.054 π cc

(d) 0.54 π cc

, what change occurs in its area?π97. If the circumference of a circle increases from 4n to 8

(a) It doubles

(b) It triples

(c) It quadruples

(d) It is halved

98. A starts business with Rs. 3500/- and after 5 months, B joins with A as his partner. After a year, the profit is divided in the ratio 2 : 3. What is B's contribution in the capital?

(a) Rs. 8000/-

(b) Rs. 8500/-

(c) Rs. 9000/-

(d) Rs. 7500/-

99. A, B and C rent a pasture. A puts in 10 oxen for 7 months, B 12 oxen for 5 months and C 15 oxen for 3 months for grazing. If the rent of the pasture is Rs. 175/-, how much must C pay as his share of rent?

(a) Rs. 45/-

(b) Rs. 50/-

(c) Rs.55/-

(d) Rs. 60/-

100. A reduction of 20% in the price of oranges enables a man to buy 5 oranges more for Rs. 10/-. The price of an orange before reduction was:

(a) 20 paise

(b) 40 paise

(c) 50 paise

(d) 60 paise

ANSWERS :

76. (d) 77. (a) 78. (c) 79. (d) 80. (a) 81. (a) 82. (d) 83. (a) 84. (d) 85. (a) 86. (c) 87. (a) 88. (b) 89. (d) 90. (c) 91. (d) 92. (a) 93. (a) 94. (c) 95. (d) 96. (a) 97. (c) 98. (c) 99. (a) 100. (c)

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