(Papers) RRB Group D : Exam Paper & Answer Key Set-4

(Mathematics)

76. The value of (256)0.16 × (256)0.09 is :

(a) 256.25

(b) 64

(c) 16

(d) 4

77. Simplify :

$$\frac{0.05 \times 0.05 \times 0.05 - 0.04 \times 0.04 \times 0.04}{0.05 \times 0.05 + 0.002 + 0.04 \times 0.04}$$

    (a) 1   (b) 0.1   (c) 0.01   (d) 0.001

78. Simplify : $\dfrac{\frac{5}{3} \times \frac{7}{51} \text{ of } \frac{17}{5} - \frac{1}{3}}{\frac{2}{9} \times \frac{5}{7} \text{ of } \frac{28}{5} - \frac{2}{3}}$

    (a) $\frac{1}{2}$ (b) 4   (c) 2   (d) $\frac{1}{4}$

79. $1 - [5 - \{2 + (-5 + 6 - 2)\,2\}]$ is equal to :

    (a) −4   (b) 2
    (c) 0   (d) −2

80. if $\sqrt{x} + \sqrt{441} = 0.02$, then value of x is:

    (a) 1.64   (b) 2.64
    (c) 1.764   (d) 0.1764

81. $2\sqrt[3]{32} - 3\sqrt[3]{4} + \sqrt[3]{500}$ is equal to :

    (a) $4\sqrt[3]{6}$

    (b) $3\sqrt{24}$

    (c) $6\sqrt[3]{4}$ (d) 916

82. If $p \times q = p + q + \dfrac{p}{q}$, the value of 8×2 is :

    (a) 6   (b) 10
    (c) 14   (d) 16

83. The square root of : $\dfrac{(0.75)^3}{1 - 0.75} + \left[0.75 + (0.75)^2 + 1\right]$ is:

    (a) 4   (b) 3   (c) 2   (d) 1

84. Find the value of $\sqrt{4+\sqrt{44+\sqrt{10000}}}$

(a) 12   (b) 8

(c) 4   (d) −4

85. If $3^{x+8} = 272^{x+1}$, the value of x is :

(a) 7   (b) $1\frac{3}{4}$

(c) $\frac{7}{100}$ (d) $\frac{4}{7}$

86. $\frac{\sqrt[3]{8}}{\sqrt{16}} \div \sqrt{\frac{100}{49}} \times \sqrt[3]{125}$ is equal to :

(a) 7   (b) $1\frac{3}{4}$

(c) $\frac{7}{100}$ (d) $\frac{4}{7}$

87. If $\log_{10}2 = 0.3010$ and $\log_{10}7 = 0.8451$, then the value of $\log_{10}2.8$ is :

(a) 0.4471

(b) 1.4471

(c) 2.4471   (d) 1.4471

88. Which of the following fractions is the smallest?

$$\frac{9}{13}, \frac{17}{26}, \frac{28}{29}, \frac{33}{52}$$

(a) $\frac{33}{52}$ (b) $\frac{17}{26}$

(c) $\frac{9}{13}$ (d) $\frac{28}{39}$

89. $(49)^{15} - 1$ is exactly divisible by:

(a) 50   (b) 51

(c) 29   (d) 8

90. Fraction between 2/5 and 4/9 is :

(a) 3/7

(b) 2/3

(c) 4/5

(d) 1/2

91. If 1/3 of a tank holds 80 litres of water, then the quantity of water that 1/2 tank holds is :

(a) 240 litres

(b) 120 litres

(c) 80/3 litres

(d) 100 litres

92. The LCM of two numbers is 495 and their HCF is 5. If the sum of numbers is 100, then their difference is :

(a) 10

(b) 46

(c) 70

(d) 90

93. LCM of two numbers is 225 and their HCF is 5. If one number is 25, the other number will be :

(a) 5

(b) 25

(c) 45

(d) 225

94.2/3 of three-fourth of a number is:

(a) 1/2 of the number

(b) 1/3 of the number

(c) 8/9 of the number

(d) 17/12 of the number

95. If we write 45 as sum of four numbers so that when 2 is added to first number, 2 subtracted from second number, third multiplied by 2 and fourth divided by 2, we get the same result, then the four numbers are:

(a) 1, 8, 15, 21

(b) 8, 12, 5, 20

(c) 8, 12, 10, 15

(d) 2, 12, 5, 26

96. Four numbers are in the ratio 1 : 2 : 3 : 4. Their sum is 16. The sum of the first and fourth number is equal to :

(a) 5

(b) 8

(c) 10

(d) 80

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97. If 3 times a number exceeds its 3/5 by 60, then what is the number?

(a) 25

(b) 35

(c) 45

(d) 60

98. The numeraor and denominator of a fraction are in the ratio of 2 : 3. If 6 is subtracted from the numerator, the result is a fration that has a value 2/3 of the original fraction. The numerator of the original fraction is :

(a) 6

(b) 18

(c) 27

(d) 36

99. The sum of three consecutive odd natural numbers is 147. Then, the middle number is :

(a) 47

(b) 48

(c) 49

(d) 51

100. If 5432*2 is divisible by 9, then the digit in place of * is :

(a) 0

(b) 1

(c) 6

(d) 9

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