

SECTION 2: QUANTITATIVE APTITUDE (50 QUESTIONS)

Directions for Q.No.51-100) for each of the following questions, select the choice that best answers the question or completes the statement.

- 51.** An employer pays Rs 20 for each day a worker works, and forfeits Rs. 3 for each day he is idle. At the end of 60 days, a worker gets Rs. 280. For how many days did the worker remain idle?
- a) 15
 - b) 20
 - c) 40
 - d) 30
- 52.** The figure formed by joining all the mid points of square is
- a) square
 - b) rectangle
 - c) parallelogram
 - d) trapezium
- 53.** What will be the cost of gardening 1mtr broad boundary around a rectangular plot having perimeter of 340 mtr at the rate of Rs. 10 per square metre?
- a) 1700
 - b) 3400
 - c) Cannot be determined
 - d) 3400
- 54.** Pradeep invested 20% more than Mohit. Mohit invested 10% less than Raghu. If the total sum of their investment is Rs.17880, how much amount did Raghu invest?
- a) 5000
 - b) 6000
 - c) 7000
 - d) 8000
- 55.** It takes eight hours for a 600 km journey, if 120 km is done by train and the rest by car. It takes 20 minutes more, if 200 km is done by train and the rest by car. The ratio of the speed of the train to that of the car is?
- a) 2:3
 - b) 3:2
 - c) 3:4
 - d) 4:3
- 56.** If the length and breadth of a rectangle is increased by 50% and 20% respectively, then how many times will the area be increased?
- a) $1\frac{1}{3}$
 - b) $\frac{4}{5}$
 - c) $3\frac{2}{5}$
 - d) $2\frac{2}{5}$

57. A person borrows Rs. 5000 for 2 years at 4% p.a. simple interest. He immediately lends it to another person at 6.25% p.a. for 2 years. Find his gain in the transaction per year.
- a) 112.50
 - b) 125.50
 - c) 150
 - d) 175
58. Two pipes can fill a tank in 20 and 24 minutes respectively and waste pipe can empty 3 gallons per minute. All three pipes working together can fill the tank in 15 minutes. The capacity of the tank is
- a) 60 Gallons
 - b) 100 Gallons
 - c) 120 Gallons
 - d) 180 Gallons
59. The average age of 8 men is increased by 2 years, when two of the ages are 21 years and 23 years are replaced by two new men. The average age of two new men is
- a) 22
 - b) 23
 - c) 24
 - d) 30
60. A pair of articles was bought for Rs. 37.40 at a discount of 15%. What must be the marked price of each of the articles?
- a) Rs. 11
 - b) Rs. 22
 - c) Rs. 33
 - d) Rs. 44
61. In covering distance of 30km, Abhay takes 2 hours more than Sameer. If Abhay doubles his speed, then he would take an hour less than Sameer. Abhay's speed is?
- a) 5 km/hr
 - b) 6 km/hr
 - c) 6.25 km/hr
 - d) 7.5km/hr
62. A Circus tent is cylindrical to a height of 3 m and conical above it. If the diameter of the base is 140 m and the slant height of the conical portion is 80 m, the length of canvas 2 m wide required to make the tent is
- a) 8960 m
 - b) 9660 m
 - c) 9460 m
 - d) 9860 m

63. A man and his wife appear in an interview for the two vacancies in the same post. The probability of husband selection is $\frac{1}{7}$ and probability of wife selection is $\frac{1}{5}$. What is the probability that only one of them is selected

- a) $\frac{4}{5}$
- b) $\frac{2}{7}$
- c) $\frac{8}{15}$
- d) $\frac{4}{7}$

64. A box contains 20 electric bulbs, out of which 4 are defective. Two bulbs are chosen at random from this box. The probability that at least one of them is defective:

- a) $\frac{4}{19}$
- b) $\frac{7}{19}$
- c) $\frac{12}{19}$
- d) $\frac{21}{95}$

65. 3 years ago, the average age of a family of 5 members was 17 years. A baby having been born, the average age of the family is the same today. The present age of the baby today?

- a) 5
- b) 2
- c) 3
- d) 4

66. The Population of a town increased from 1,75,000 to 2,62,500 in a decade. The average % increase of the population per year is:

- a) 4.37%
- b) 5%
- c) 6%
- d) 8.75%

67. A shopkeeper marks up his goods to gain 35%. But, he allows 10% discount for cash payment. His profit on the cash transaction therefore, in percentage, is:

- a) 13.5%
- b) 25%
- c) 21.5%
- d) 31.5%

68. In an examination, 35% of the students passed and 455 failed. How many students appeared for the examination?
- a) 490
 - b) 700
 - c) 845
 - d) 1300
69. A vessel is filled with liquid, 3 parts of which are water and 5 parts syrup. How much of the mixture must be drawn off and replaced with water so that the mixture may be half water and half syrup?
- a) $\frac{1}{3}$
 - b) $\frac{1}{4}$
 - c) $\frac{1}{5}$
 - d) $\frac{1}{7}$
70. The angle of elevation of a ladder leaning against a wall is 60 degrees and the foot of the ladder is 4.6m away from the wall. The length of the ladder is
- a) 2.3m
 - b) 4.6m
 - c) 10.2 m
 - d) 9.2m
71. If a sum at compound interest becomes three times in 4 years, then with same interest rate, the sum will become 27 times in?
- a) 8 years
 - b) 12 years
 - c) 24 years
 - d) 36 years
72. A pineapple costs Rs. 7 each. A watermelon costs Rs. 5 each. X spends Rs 38 on these fruits. The no of pine apples purchased is
- a) 2
 - b) 3
 - c) 4
 - d) 6

- 73.** At an election involving two candidates, 68 votes were declared invalid. The winning candidate secures 52% and wins by 98 votes. The total no of votes polled is:
- a) 2382
 - b) 2450
 - c) 2518
 - d) 3000
- 74.** A printer numbers the pages of a book starting with 1 and uses 3189 digits in all. How many pages does the book have?
- a) 1000
 - b) 1074
 - c) 1075
 - d) 1080
- 75.** Sakshi can do a piece of work in 20 days . Tanya is 25% more efficient than Sakshi. The no of days taken by Tanya to do the same piece of work
- a) 15 days
 - b) 16 days
 - c) 18 days
 - d) 25 days
- 76.** If $\log 2 = 0.30103$, then the value of $\log 80$ is:
- a) 1.6020
 - b) 1.9030
 - c) 3.9030
 - d) 0.9580
- 77.** The capacity of the cylindrical tank is 264.4 litres. If the height is 4 meters, what is the diameter of the base?
- a) 14cm
 - b) 29cm
 - c) 14cm
 - d) 28cm
- 78.** 8, 7, 11, 12, 14, 17, 17, 22 (?)
- a) 27
 - b) 20
 - c) 22
 - d) 24

79. $8988 \div 8 \div 4 = ?$

- a) 4494
- b) 561.75
- c) 2247
- d) 280.875

80. Two cards are drawn together from a pack of 52 cards. The probability that both cards are kings is

- a) $1/15$
- b) $25/57$
- c) $35/256$
- d) $1/221$

81. $54.327 \times 357.2 \times 0.0057$ is same as

- a) $5.4327 \times 3.572 \times 5.7$
- b) $5.4327 \times 3.572 \times 0.57$
- c) $54327 \times 3572 \times 0.0000057$
- d) None of these

82. A man invests in 16% stock at 128. The interest obtained by him %?

- a) 8
- b) 12
- c) 12.5
- d) 16

83. Present ages of X and Y are in the ratio of 5:6 respectively. Seven years hence this ratio will become 6:7 respectively. What is X's present age in years?

- a) 35 years
- b) 42 years
- c) 49 years
- d) 40 years

84. A man buys an article for 10 % less than its value and sells it for 10% more than its value. His gain or loss % is?

- a) No loss no gain
- b) 20 % profit
- c) $> 20\%$
- d) $< 20\%$

85. The ratio between two numbers is 3:4 and their LCM is 180. The first no is:

- a) 60
- b) 45
- c) 49
- d) 55

86. The price of wheat falls by 16%. By what percentage a person can increase the consumption of wheat, so that the overall budget does not change.

- a) 16
- b) 18
- c) 18.5%
- d) 19

87. A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?

- a) 12days
- b) 15 days
- c) 16days
- d) 18 days

88. Simple interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on Rs. 4000 for 2 years at 10% per annum. The sum placed on simple interest is:

- a) 1550
- b) 1650
- c) 1750
- d) 2000

89. If $\log \frac{a}{b} + \log \frac{b}{a} = \log (a + b)$, then:

- a) $a + b = 1$
- b) $a - b = 1$
- c) $a = b$
- d) $a^2 - b^2 = 1$

90. A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?

- a) $10/21$
- b) $11/21$
- c) $2/7$
- d) $5/7$

91. The LCM of two numbers is 495 and their HCF is 5. If the sum of these numbers is 10, then their difference is

- a) 10
- b) 46
- c) 70
- d) 90

92. If $2p+3q=18$ and $2p-q=2$, then $2p+q=?$

- a) 6
- b) 7
- c) 10
- d) 20

93. The surface area of sphere is same as the curved surface area of the right circular cylinder whose height and diameter are 12cm each. The radius of the sphere is?

- a) 3
- b) 4
- c) 6
- d) 12

94. $(1000)^9 / (10)^{24} = ?$

- a) 10000
- b) 1000
- c) 100
- d) 10

95. In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together?

- a) 810
- b) 1440
- c) 2880
- d) 50400

96. In a race of 100m, A can beat B by 10 m and C by 13 m. In race of 180m, B will beat C by

- a) 5.4 m
- b) 4.5m
- c) 5m
- d) 6m

97. After distributing the sweets equally among 25 children, 8 sweets remain. Had the number of children been 28, 22 sweets would have been left after equally distributing them. What was the total no of sweets?

- a) 328
- b) 348
- c) 358
- d) 400

98. A towel, when bleached, was found to have lost 20% of its length and 10% of its breadth. The percentage of decrease in area is

- a) 10%
- b) 10.08%
- c) 20%
- d) 28%

99. The value of $\frac{(0.96)^3 - (0.1)^3}{(0.96)^2 + 0.096 + (0.1)^2}$ is:

- a) 0.86
- b) 0.95
- c) 0.97
- d) 1.06

100. A rectangular park 60 m long and 40 m wide has two concrete crossroads running in the middle of the park and rest of the park has been used as a lawn. If the area of the lawn is 2109 sq. M, then what is the width of the road?

- a) 2.91m
- b) 3m
- c) 5.82m
- d) 5m