Exercise

1. When the present age of the mother is added to the present age of the daughter, the sum is 40 years. What will be their total age after 5 years?
   a) 45 years   b) 50 years
   c) 40 years   d) 55 years
   e) None of these

2. The average age of a brother and sister was 35 years, at 5 years ago. What will be their average age at present?
   a) 37.5 years
   b) 42 years
   c) 80 years
   d) 40.5 years
   e) None of these

3. Ram's present age is one-sixth of his father's present age. If the difference between their present ages is 35 years, then what is his father's present age?
   a) 32 years   b) 42 years
   c) 52 years   d) 44 years
   e) None of these

4. Price of 250 gm of mangoes is Rs. 7.50. What is the price of 5 kg of mangoes?
   a) Rs. 120   b) Rs. 135
   c) Rs. 150   d) Rs. 145
   e) None of these

5. Find compound interest on Rs. 6250 at 16% per annum for 2 years, compounded annually.
   a) Rs. 2160   b) Rs. 2340
   c) Rs. 1520   d) Rs. 3120
   e) None of these

6. A sum of money lent out at simple interest amounts to Rs. 720 after 2 years and to Rs. 1020 after a further period of 5 years. The sum is
   a) Rs. 500   b) Rs. 600
   c) Rs. 700   d) Rs. 710
   e) None of these

7. The product of two numbers is 9375 and the quotient, when the larger one is divided by the smaller is 15. The sum of the number is
   a) 395   b) 380
   c) 400   d) 425
   e) None of these

8. The L.C.M. of 148 and 185 is
   a) 680   b) 740
   c) 3700   d) 2960
   e) None of these

9. If the side of a square is increased by 25%, then its area is increased by
   a) 25%   b) 55%
   c) 40.5%   d) 56.25%
   e) None of these

10. What is the loss percent if a man loses Rs. 10 on selling an article for Rs. 100?
    a) $9\frac{1}{11}\%$ b) 10%
    c) $11\frac{1}{9}\%$ d) 9%
    e) None of these

11. A father can do a job as fast as his two sons working together. If one son does the job in 3 hours and the other in 6 hours, how many hours does it take the father to do the job?
    a) 1   b) 2
    c) 3   d) 4
    e) None of these

12. 10 men working 6 hours a day can complete a work in 18 days. How many hours a day must 15 men work to complete it in 12 days?
    a) 6   b) 10
    c) 12   d) 15
    e) None of these

13. $999\frac{1}{7} + 999\frac{2}{7} + 999\frac{3}{7} + 999\frac{4}{7} + 999\frac{5}{7} + 999\frac{6}{7}$ is simplified to
    a) 5997   b) 5979
    c) 5994   d) 2997
    e) None of these

14. The fractions $\frac{1}{3}, \frac{4}{7}$ and $\frac{2}{5}$ written in ascending order give
    a) $\frac{4}{7} < \frac{1}{3} < \frac{2}{5}$ b) $\frac{2}{5} < \frac{4}{7} < \frac{1}{3}$
    c) $\frac{1}{3} < \frac{2}{5} < \frac{4}{7}$ d) $\frac{4}{7} < \frac{2}{5} < \frac{1}{3}$
    e) None of these

15. The number of marble slabs of size 20 cm × 30 cm required to pave the floor of a square room of side 3 metres is
   a) 100
   b) 150
   c) 225
   d) 25
   e) None of these

16. If the cost price of 12 pens is equal to the selling price of 8 pens, then the gain percent is
   a) $33\frac{1}{3}\%$
   b) $66\frac{2}{3}\%$
   c) 25%
   d) 50%
   e) None of these

17. On selling 17 balls at Rs. 720, there is a loss equal to the cost price of 5 balls. The cost price of a ball is
   a) Rs. 45
   b) Rs. 50
   c) Rs. 60
   d) Rs. 55
   e) None of these

18. A boat goes 40 km upstream in 8 hours and 36 km downstream in 6 hours. The speed of the boat in still waters is
   a) 6.5 km/hour
   b) 5.5 km/hour
   c) 6 km/hour
   d) 5 km/hour
   e) None of these

19. Walking at the rate of 4 kmph a man covers a certain distance in 2 hours and 45 min. Running at a speed of 16.5 kmph, the man will cover the same distance in
   a) 40 min.
   b) 45 min.
   c) 100 min.
   d) 41 min. 15 sec.
   e) None of these

20. $\cfrac{2}{2+\cfrac{2}{3+\cfrac{2}{3+\frac{2}{3}}}} \times 0.39$ is simplified to

   a) $\frac{1}{3}$
   b) 2
   c) 6
   d) 3
   e) None of these

21. Three partners A, B, C invest Rs. 36000, Rs. 45000 and Rs. 54000 respectively in a business. Out of a total profit of Rs. 37500, C's share is
   a) Rs. 12500
   b) Rs. 15000
   c) Rs. 10000
   d) Rs. 15500
   e) None of these

22. Bananas are bought at the rate of 6 for Rs. 5 and sold at the rate of 5 for Rs. 6. Profit percent is
   a) 36%
   b) 42%
   c) 44%
   d) 48%
   e) None of these

23. The average age of 12 students is 20 years. If the age of one more student is included, the average decreases by 1. What is the age of the new student?
   a) 5 years
   b) 7 years
   c) 9 years
   d) 11 years
   e) None of these

24. The average of 20 numbers is 12. The average of the first 12 is 11 and that of the next 7 is 10. The last number is
   a) 40
   b) 38
   c) 48
   d) 50
   e) None of these

25. The number, whose square is equal to the difference of the squares of 75.15 and 60.12 is
   a) 46.09
   b) 48.09
   c) 45.09
   d) 47.09
   e) None of these

26. A is twice as good a workman as B and together they can complete a piece of work in 14 days. In how many days, can it be done by A alone?
   a) 12 days
   b) 24 days
   c) 21 days
   d) 15 days
   e) None of these

27. Determine the rate of interest for a sum of money that becomes $\frac{216}{125}$ times of itself in 3 years, compunded annually.
   a) 15%
   b) 20%
   c) 12.5%
   d) 21.5%
   e) None of these

28. A wire is looped in the form of a circle of radius 28 cm. It is re-bent into a square form. Find the length of the side of the square. $\left(\text{Use } \pi = \frac{22}{7}\right)$
   a) 44 cm
   b) 22 cm
   c) 28 cm
   d) 7 cm
   e) None of these

29. A reduction of 25% in the price of an article enables a man to buy 50 kilograms more for Rs.500. What is the reduced price per kilogram?
   a) Rs. 25
   b) Rs. 5
   c) Rs. 2.50
   d) Rs. 3.50
   e) None of these

30. In an examination, a candidate scores 2 marks for every correct answer and loses 1 mark for every wrong answer. A candidate attempts all the 100 questions and scores 80 marks. How many questions did he answer correctly?
   a) 80
   b) 60
   c) 20
   d) 100
   e) None of these

31. Mohan bought two old scooters for Rs.18,000. By selling one at a profit of 25% and the other at a loss of 20%, he neither gains nor loses. Find the cost price of each scooter.
   a) Rs. 8000, 12000
   b) Rs. 18000, 8000
   c) Rs. 8000, 10000
   d) Rs. 10000, 18000
   e) None of these

32. By selling an umbrella for Rs.300, a shopkeeper gains 20%. During a clearance sale, the shopkeeper allows a discount of 10% on the market price. Find his gain percent during the sale season.
   a) 6%
   b) 4%
   c) 20%
   d) 8%
   e) None of these

33. If 12 boys can earn Rs.2,400 in 5 days, then how many boys can earn Rs.4,200 in 21 days?
   a) 105 boys
   b) 100 boys
   c) 5 boys
   d) 12 boys
   e) None of these

34. The least perfect square number which is divisible by 3, 4, 5, 6 and 8 is
   a) 900
   b) 1600
   c) 2500
   d) 3600
   e) None of these

35. A man has Rs.480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes are equal. What is the total number of notes?
   a) 60
   b) 90
   c) 75
   d) 45
   e) None of these

36. In an organisation, 40% of the employees are matriculates, 50% of the remaining are graduates and remaining 180 are post-graduates. How many employees are graduates?
   a) 360
   b) 240
   c) 180
   d) 300
   e) None of these

37. By selling an article for Rs.240, a man incurs a loss of 10%. At what price should he sell it so as to make a profit of 20%
   a) Rs. 264
   b) Rs. 288
   c) Rs. 300
   d) Rs. 320
   e) None of these

38. The cost price of two dozen bananas is Rs.32. After selling 18 bananas at the rate of Rs.12 per dozen, the shopkeeper reduced the rate as Rs.4 per dozen. The percent loss is
   a) 25.2%
   b) 32.4%
   c) 36.5%
   d) 37.5%
   e) None of these

39. If the cost price of 12 articles is equal to the selling price of 10 articles, then the profit percent is
   a) $16\frac{2}{3}\%$
   b) 18%
   c) 20%
   d) 25%
   e) None of these

40. The length of the longest rod that can be placed in a room 12 m x 9 m x 8 m is
   a) 27 m
   b) 19 m
   c) 17 m
   d) 13 m
   e) None of these

41. $\frac{1}{2} + \left\{ 4\frac{3}{4} - \left(3\frac{1}{6} - 2\frac{1}{3} \right) \right\}$ is equal to
   a) $3\frac{2}{3}$
   b) $1\frac{1}{4}$
   c) $4\frac{5}{12}$
   d) $1\frac{2}{3}$
   e) None of these

42. If A's salary is 25% higher than the B's salary, then by what percent is B's salary lower than the A's?
   a) $33\frac{1}{3}\%$
   b) 25%
   c) 20%
   d) 15%
   e) None of these

45

43. There are 30 students in a class. The average age of the first 10 students is 12.5 years. The average age of the remaining 20 students is 13.1 years. The average age (in years) of the students of the whole class is
a) 12.5   b) 12.7
c) 12.8   d) 12.9
e) None of these

44. A train is moving at a speed of 132 km/hour. If the length of the train is 110 metres, then how long will it take to cross a railway platform 165 metres long?
a) 5 seconds   b) 7.5 seconds
c) 10 seconds   d) 15 seconds
e) None of these

45. A housewife saved Rs.2.50 in buying a dress. If she spent Rs.25 for the dress, then approximately how much percent she saved in this transaction?
a) 8%   b) 9%
c) 10%   d) 11%
e) None of these

46. The simplification of $\dfrac{5.32 \times 56 + 5.32 \times 44}{(7.66)^2 - (2.34)^2}$ yields the result
a) 7.2   b) 8.5
c) 10   d) 12
e) None of these

47. A sum of Rs.370 is to be divided among A, B and C such that $\dfrac{A's\ Share}{B's\ Share} = \dfrac{B's\ Share}{C's\ Share} = \dfrac{3}{4}$. A's share (in rupees) is
a) 240   b) 120
c) 100   d) 90
e) None of these

48. Two numbers are in the ratio 3 : 5. If 9 is substracted from each, then their ratio becomes 12 : 23. Find the smaller number
a) 27   b) 33
c) 49   d) 55
e) None of these

49. If the diagonals of two squares are in the ratio 2 : 5, then their areas will be in the ratio
a) $\sqrt{2} : \sqrt{5}$ b) 2 : 5
c) 4 : 25   d) 4 : 5
e) None of these

50. The radius of a circular wheel is 1.75 m. The number of revolutions that it will make in covering 11 km is

a) 1000   b) 10,000
c) 100   d) 10
e) None of these

51. What per cent of 8.25 is 759 ?
a) 92000   b) 92
c) 920   d) 9200
e) None of these

52. Which of following numbers, when multiplied by 0.3, results in the number which is 40% of 150 ?
a) 200   b) 140
c) 160   d) 90
e) None of these

53. The average of three numbers is 49. If the difference between the largest and the smallest number is 31 and the addition of these two numbers is 99, what is the middle number?
a) 84   b) 48
c) 46   d) 44
e) None of these

54. When a plot is sold for Rs. 18,700, the owner loses 15%. At what price must the plot be sold in order to gain 15% ?
a) Rs.22,500   b) Rs.21,000
c) Rs.25,800   d) Rs.25,300
e) None of these

55. The ratio of the ages of two sisters today is 1 : 2. However, after 4 years, the ratio would be 2:3. What is the age of the elder sister today?
a) 12 years   b) 8 years
c) 6 years   d) 10 years
e) None of these

56. When 636 are subtracted from a number, it reduces to its two-fifth. Which of the following would be twice that number ?
a) 1060   b) 530
c) 2020   d) 2100
e) None of these

57. Two friends started a business in partnership by investing Rs.20,000 and Rs.25,000 respectively. What would be the difference in their shares of the total profit of Rs. 15,750 earned in one year ?
a) Rs.1,750   b) Rs.2,250
c) Rs.2,750   d) Rs.1,250
e) None of these

58. If the selling price of 12 articles is equal to the cost price of 18 articles, what is the profit percent?
    a) 15%
    b) 150%
    c) 60%
    d) 50%
    e) 40%

59. In 5 years, Rs.2000 becomes Rs.5000. In how many years, at the same rate Rs.700 will become Rs.910.
    a) 1
    b) $\dfrac{1}{20}$
    c) $\dfrac{1}{10}$
    d) 10
    e) None of these

60. The population of a City decreases by 3% of the initial at the beginning of every year. If the present population is 1,25,000, what will be after 2 years?
    a) 1,17,600
    b) 1,17,610
    c) 17,610
    d) 1,17,613
    e) None of these

61. There are two towns A and B. Anil goes from A to B at 30 kmph and comes back to the starting point at 70 kmph. What is his average speed during the whole journey?
    a) 21
    b) 30
    c) 42
    d) 24
    e) None of these

62. A boy drives 150 km from A to B in 3 hrs and 20 min and returns to A in 4 hrs and 10 min. Then average speed from A to B exceeds the average speed from entire trip by
    a) 3
    b) 4
    c) 5
    d) 7
    e) None of these

63. A train 150 m long is running at 72 kmph. In how much time will it pass a platform 250 m long?
    a) 10
    b) 20
    c) 400
    d) 17
    e) None of these

64. A train of length 110 m takes 10 sec to pass over another train 90 m long coming from the opposite direction. If the speed of the first train be 20 kmph, the speed of the second train is
    a) 15
    b) 16
    c) 52
    d) 30
    e) None of these

65. The speed of boat in still water is 20 kmph, if it can travel 16 km upstream in 1 hr., what time it would take to travel the same distance downstream?
    a) 20
    b) 40
    c) 30
    d) 15
    e) None of these

66. Speed of a boat in standing water is 10 kmph and the speed of the stream is 2 kmph. A man rows to a place at a distance of 120 km and comes back to the starting point. The total time taken by him is
    a) 20
    b) 24
    c) 25
    d) 50
    e) None of these

67. Arun sold a table at a profit of 15%. Had be bought it at 10% less and sold it for Rs.21 loss, he would have gained 25%. Find the C.P. of the table.
    a) Rs. 800
    b) Rs. 840
    c) Rs. 420
    d) Rs. 1000
    e) None of these

68. Varun lost 20% by selling a T.V. set Rs. 8000. What percent will he gain by selling it at Rs.8500 ?
    a) 10%
    b) 15%
    c) 12%
    d) 13.7%
    e) None of these

69. A alone can complete a job in 12 days. B alone can complete the same job in 18 days. If both of them work together, in how many days would the job be completed?
    a) 7 days
    b) 7.2 days
    c) 7.3 days
    d) $\dfrac{14}{10}$ days
    e) None of these

70. Two persons A and B working together can dig a trench in 10 hours while A alone can dig it in 14 hrs. In how many hours B alone can dig such a trench?
    a) 15 hours
    b) 10 hours
    c) 17 hours
    d) 35 hours
    e) None of these

71. The monthly salary of a person gets increased by 5% thereby becoming Rs.15,120 per annum. What was his earlier salary per month?

   a) Rs. 1200   b) Rs. 1100
   c) Rs. 1000   d) Rs. 700
   e) None of these

72. In a town 47% of the population is male. While 75% of the male population is literate. 60% of the female population is illiterate. What % of population of the total population of the town must be literate?

   a) 56%   b) 56.25%
   c) 56.5%   d) 56.45%
   e) None of these

73. The product of two numbers is 200 and the sum of their squares 225. The sum of the numbers is

   a) 10   b) 17
   c) 15   d) 25
   e) None of these

74. The sum of three numbers is 60. If the ratio between first and second be 1 : 2 and that between second and third is 2 : 3 then the second number is

   a) 10   b) 20
   c) 30   d) 15
   e) None of these

75. A mixture contains alcohol and water in the ratio 2 : 1. If 3 litres of water is added to the mixture, the ratio becomes 2 : 3. Find the quantity of alcohol in the given mixture.

   a) $\frac{2}{3}$ ltrs   b) 3 ltrs
   c) 5 ltrs   d) 7 ltrs
   e) None of these

76. In a bag, there are coins of 50 paise, 25 paise and 1 rupee in the ratio of 5 : 6 : 2. If there are in all Rs. 42 in the bag how many coins of 25 paise does the bag have?

   a) 42   b) 21
   c) 15   d) 16
   e) None of these

77. What ratio of a tea must be mixed at Rs.25 per kg with tea at Rs.45 per kg, so that the mixture must be worth Rs.35 per kg?

   a) 1 : 1   b) 1 : 3
   c) 3 : 1   d) 2 : 1
   e) None of these

78. Find the area of an equilateral triangle each of whose side is 4 cm long?

   a) $2\sqrt{3}$ b) $3\sqrt{3}$
   c) $5\sqrt{3}$ d) $4\sqrt{3}$
   e) None of these

79. Find the volume and surface area of a sphere of radius 14 cm.

   a) 2364   b) 2564
   c) 2464   d) 2400
   e) None of these

80. January 2, 1995 was Sunday. What day of the week lies on January 2, 1996?

   a) Monday   b) Tuesday
   c) Friday   d) Sunday
   e) None of these

81. Find out the wrong number in each sequence
   11, 22, 33, 44, 56, 66, 77

   a) 11   b) 33
   c) 44   d) 56
   e) None of these

82. Insert the missing number
   3, 5, 9, 11, 15, 17, 21, (.......)

   a) 10   b) 22
   c) 23   d) 27
   e) None of these

83. Find sin 30° cos 60° + cos 30° sin 60°

   a) 0   b) $\frac{1}{2}$
   c) 1   d) $\frac{1}{\sqrt{3}}$
   e) None of these

84. It is 185 miles between Chennai and Bangalore. If a bus takes 2 hours to travel the first 85 miles, how long the bus has to take to travel the final 100 miles in order to average 50 miles an hour for the entire trip?

   a) 60 minutes   b) 75 minutes
   c) 94 minutes   d) 102 minutes
   e) None of these

85. It cost Rs. 1,000 to make the first 1,000 copies of a book and X rupees to make each subsequent copy. If it costs a total of Rs. 7,230 to make the first 8,000 copies of a book, what is X?
    a) 0.89
    b) 0.90375
    c) 1
    d) 89
    e) None of these

86. Which of the following numbers is the largest?
    a) $(2 + 2 + 2)^2$
    b) $\{(2 + 2)^2\}^2$
    c) $(2 \times 2 \times 2)^2$
    d) $2 + 2^2 + (2)^2$
    e) None of these

87. If the radius of a circle is increased by 6% then the area of that circle is increased by
    a) 0.36%
    b) 3.6%
    c) 6%
    d) 12.36%
    e) None of these

88. A car originally was priced at Rs. 50,000. After one month the price was discounted by 10%. Two months later, the new price was discounted by 20% and the car was sold. How much did the buyer pay for the car?
    a) Rs. 14,000
    b) Rs. 15,000
    c) Rs. 5,000
    d) Rs. 36,000
    e) None of these

89. A vessel contains 56 litres of a mixture of milk and water in the ratio 5 : 2. How much water should be mixed with it so that the ratio of milk and water may be 4 : 5 ?
    a) 22
    b) 34
    c) 32
    d) 20
    e) None of these

90. Two persons ride towards each other from two places 55 km apart, one riding at 12 km per hour and the other 10 km per hour. When will they be first 11 km apart?
    a) 1 hour
    b) 1½ hours
    c) 2 hours
    d) 2½ hours
    e) None of these

91. One-half of a number is 17 more than one-third of that number. What is the number?
    a) 52
    b) 84
    c) 102
    d) 112
    e) None of these

92. A coffee shop blends 2 kinds of coffee, putting in 2 parts of 33 rupees a pound grade to 1 part of a 15 rupees grade. If the mixture is changed to 1 part of 33 rupees grade to 2 parts of the less expensive grade, how much will the shop save in blending 100 pounds?
    a) Rs. 900
    b) Rs. 1,000
    c) Rs. 300
    d) Rs. 800
    e) None of these

93. In a Camp there is provision for 1600 participants for 60 days. Actually 1200 participated; how many days will the provision last?
    a) 75
    b) 90
    c) 80
    d) 100
    e) None of these

94. Simplify:

    $$\frac{0.7 \times 0.7 \times 0.7 - 0.2 \times 0.2 \times 0.2}{0.7 \times 0.7 + 0.2 \times 0.2 + 0.2 \times 0.7}$$
    a) 0.7
    b) 0.2
    c) 0.5
    d) 0.3
    e) None of these

95. A contractor has 50 men working 8 hours a day engaged on a piece of work to be finished in 28 days. At the end of 18 days, only one third of the work is done. He engages more men and all his men now work for 2 more hours a day. What is the least number of additional men that he must engage if the work is to be finished in the specified time?
    a) 56 men
    b) 90 men
    c) 94 men
    d) 75 men
    e) None of these

96. The Nilgiri Express runs from Mettupalayam to Ooty at 7.5 miles per hour. While returning its speed is 8.7 miles per hour. The upward journey takes 32 minutes more than the downward journey. What is the distance between Mettupalayam and Ooty?
    a) 15 miles
    b) 17.4 miles
    c) 29 miles
    d) 32 miles
    e) None of these

97. A man buys milk at the rate of 85 paise per litre and after mixing water sells it at the same rate and makes a profit of $11\frac{1}{9}$%. How much water did he mix?
    a) 10 : 1
    b) 9 : 1
    c) 11 : 1
    d) 1 : 10
    e) None of these

98. A sum of money at simple interest amounts to Rs. 2,800 in 2 years and Rs. 3,250 in 5 years. Find the sum and the rate of interest.
    a) Rs. 2,500 and 6%
    b) Rs. 2,000 and 5%
    c) Rs. 1,000 and 10%
    d) Rs. 3,000 and 15%
    e) None of these

99. The average of a class was 15 years. When 5 boys whose average age was 12 years and 6 months were admitted, the class average was reduced by 6 months. How many boys were there in the class?
    a) 30   b) 20
    c) 10   d) 40
    e) None of these

100. The area of a square is 225 square metres. Then the perimeter of the square is
    a) 50   b) 15
    c) $15\sqrt{2}$ d) 60
    e) None of these

101. The sum of 4 consecutive numbers is 94. Then the last number is
    a) 22   b) 27
    c) 36   d) 25
    e) None of these

102. If $(a + b + c) = 0$, then $a^3 + b^3 + c^3 = ?$
    a) abc   b) 3 abc
    c) 37 abc   d) a + b + c
    e) None of these

103. 40 grams can be written in kilograms as
    a) 0.004   b) 0.04
    c) 0.41   d) 40
    e) None of these

104. A : B = 4 : 5; B : C = 3 : 8; A : C = ?
    a) 4 : 5   b) 12 : 40
    c) 8 : 5   d) 5 : 8
    e) None of these

105. When 75% of a number is added to 75, then the result is the number again. The number is given by
    a) 100   b) 200
    c) 250   d) 300
    e) None of these

106. Ganesh invested 40% of his salary on food, 50% of the remaining on education, and 10% of the remaining on other requirements. Now he is left with Rs. 540. What is his salary?
    a) Rs. 10,000   b) Rs. 4,000
    c) Rs. 2,000   d) Rs. 5,000
    e) None of these

107. Supply the missing figure:
    $$\frac{5}{10} \times \frac{8}{7} \times \frac{100}{50} \times \frac{35}{40} \times \frac{?}{16} = \frac{1}{8}$$
    a) 2   b) 4
    c) 8   d) 16
    e) None of these

108. A train travelling at a speed of 90 km/hr crosses a pole in 10 seconds. What is the length of the train in metres?
    a) 200   b) 250
    c) 150   d) 340
    e) None of these

109. If 20 workers can complete a task in 45 days, how many more workers will be required to complete it in 30 days ?
    a) 6   b) 15
    c) 10   d) 18
    e) None of these

110. In an examination, 65% students passed in English. If total number of students in the class were 40, how many students did not pass in English ?
    a) 12   b) 26
    c) 24   d) 14
    e) None of these

111. If "X" is equal to 60% of "Y", Y : (X + Y) = ?
    a) 2 : 3   b) 1 : 2
    c) 3 : 4   d) 1 : 1
    e) None of these

112. Which of the following is the least perfect square which is exactly divisible by 2,3,4,5, and 6 ?
    a) 400   b) 900
    c) 1600   d) 3600
    e) None of these

113. By selling an article at a loss of 7%, a dealer loses Rs.42. What is the cost price of the article ?
    a) Rs.700   b) Rs.800
    c) Rs.600   d) Rs.900
    e) None of these

114. "A" and "B" started a business in partnership by investing Rs.8000 and Rs.7000 respectively. If at the end of a year, a profit of Rs.22,500 was made, what will be the share of A?
    a) Rs.10,000   b) Rs.12,000
    c) Rs.10,500   d) Rs.15,000
    e) None of these

115. The side of square "A" is half of that of square "B". If the area of square "A" is 36 sq.m., what is the area of square "B"?
    a) 72 sq.m.   b) 36 sq.m.
    c) 144 sq.m.   d) 216 sq.m.
    e) None of these

116. The speed of a boat in still water is 8 km/hr. If it can travel 15 km upstream and 15 km downstream together in 5 hours, what is the speed of the stream?
    a) 3 kmph   b) 5 kmph
    c) 6 kmph   d) 4 kmph
    e) None of these

117. If a two digit number is multiplied by the sum of its digits, the product is 637. If the digit at the unit's place is by five more than the other one, what is the number?
    a) 49   b) 27
    c) 38   d) 94
    e) None of these

118. The difference between the circumference and the radius of a circle is 370 cm. What is the diameter of the circle?
    a) 160 cm   b) 130 cm
    c) 140 cm   d) 120 cm
    e) None of these

Directions: (Qns. 119-127): Find the value of question mark (?) in each question.

119. $? \times 11 = 55550$
    a) 505   b) 5050
    c) 50505   d) 5005
    e) None of these

120. $? - 1046 - 398 - 69 = 999$
    a) 2502   b) 2512
    c) 2472   d) 1978
    e) None of these

121. $1014 \times 986 = ?$
    a) 998904   b) 999804
    c) 998814   d) 998804
    e) None of these

122. $? \times 48 = 173 \times 240$
    a) 545   b) 685
    c) 865   d) 495
    e) None of these

123. $42060 \div 15 + 5 = ?$
    a) 2804   b) 2809
    c) 2103   d) 289
    e) None of these

124. LCM of 2/3, 4/9, 5/6 and 7/12 is?
    a) $\dfrac{1}{18}$ b) $\dfrac{1}{36}$
    c) $\dfrac{35}{9}$ d) $\dfrac{140}{3}$
    e) None of these

125. $0.6 + 0.66 + 0.066 + 6.606 = ?$
    a) 6.744   b) 6.738
    c) 7.932   d) 7.388
    e) None of these

126. $0.001 \div ? = 0.01$
    a) 10   b) 0.1
    c) 0.01   d) 0.001
    e) None of these

127. $0.24 \times 0.35 = ? \times 0.14 \times 0.15 \times 0.02$
    a) 2   b) 20
    c) 200   d) 2000
    e) None of these

128. What decimal of an hour is a second?
    a) 0.0025   b) 0.0256
    c) 0.00027   d) 0.000126
    e) None of these

129. If $12276 \div 155 = 79.2$, the value of $122.76 \div 15.5$ is?
    a) 7.092   b) 7.92
    c) 79.02   d) 79.2
    e) None of these

130. $\dfrac{35 \times 0.0015}{0.25 \times 0.07} = ?$
    a) 0.3   b) 3
    c) 30   d) 4
    e) None of these

131. $9.75 \times 9.75 - 2 \times 9.75 \times 5.75 + 5.75 \times 5.75 = ?$
    a) 13.25   b) 3.625
    c) 4   d) 16
    e) None of these

132. $3.5 + 21 \times 1.3 = ?$
   a) 7.28 b) 6.13
   c) 72.8 d) 30.8
   e) None of these

133. $48 - 12 \times 3 + 9 = ? 3 + 9 \div 3$
   a) 3 b) 1
   c) 3½ d) $\frac{1}{3}$
   e) None of these

134. $171 \div 19 \times 9 = ?$
   a) 0 b) 1
   c) 18 d) 81
   e) None of these

135. $\sqrt{256} \div \sqrt{X} = 2. \quad x = ?$
   a) 64 b) 128
   c) 512 d) 1024
   e) None of these

136. $\frac{112}{\sqrt{196}} \times \frac{\sqrt{576}}{12} \times \frac{\sqrt{256}}{8} = ?$
   a) 8 b) 12
   c) 16 d) 32
   e) None of these

137. $? \% \text{ of } 250 + 25\% \text{ of } 68 = 67$
   a) 10 b) 15
   c) 20 d) 25
   e) None of these

138. $\sqrt{(3.6\% \text{ of } 40)} = ?$
   a) 2.8 b) 1.8
   c) 1.2 d) 1.1
   e) None of these

139. If $A : B = 2 : 3$, $B : C = 4 : 5$, $C : D = 6 : 7$, $A : D = ?$
   a) 2 : 7 b) 7 : 8
   c) 16 : 35 d) 4 : 13
   e) None of these

140. $24 + (41 \times 42) = ?$
   a) 1800 b) 1679
   c) 1872 d) 1412
   e) None of these

141. $3.254 \times 0.65 = ?$
   a) 21.151 b) 2.1151
   c) 0.27215 d) 0.02725
   e) None of these

142. What is 25% of 25% equal to ?
   a) 6.25 b) 0.625
   c) 0.0625 d) 0.00625
   e) None of these

143. Subtracting 6% of x from x is equivalent to multiplying x by how much?
   a) 0.94 b) 9.4
   c) 0.094 d) 94
   e) None of these

144. The population of a town increased from 4000 to 6000. Find the percentage of increase.
   a) 50% b) 30%
   c) 20% d) 40%
   e) None of these

145. The students strength of a school was 840 last year. This year, there is an increase of 10%. Find the present strength of students.
   a) 824 b) 848
   c) 924 d) 948
   e) None of these

146. A boy scored 130 marks out of 150. Find the percentage of his mark.
   a) $86.\overline{6}$ b) $83.\overline{3}$
   c) $85.\overline{1}$ d) $87.\overline{5}$
   e) None of these

147. Find the value of $\dfrac{(85 \times 85) - (25 \times 25)}{(85 + 25)}$
   a) 60 b) 40
   c) 45 d) 50
   e) None of these

148. Which of the following numbers is the largest?
   a) $(2 + 2 + 2)^2$
   b) $\{(2 + 2)^2\}^2$
   c) $(2 \times 2 \times 2)^2$
   d) $(2 + 2)^2 + (2)^2$
   e) None of these

149. If 16 workers can finish a job in 3 hours, how long would it take for 5 workers to finish the same job?
   a) $1\frac{1}{2}$ hours b) $5\frac{1}{2}$ hours
   c) $2\frac{1}{16}$ hours d) $9\frac{3}{5}$ hours
   e) None of these