Test – III: Quantitative Aptitude

Directions (Q.1 – 15): What should come in place of question mark (?) in the following questions?

1. $6.2 \times 5.5 \times 4.5 = ?$
   1) 154.35
   2) 145.54
   3) 155.54
   4) 135.45
   5) None of these
2. $2\frac{1}{7} - 3\frac{1}{14} + 2\frac{2}{7} = ?$
   1) $6\frac{5}{14}$
   2) $4\frac{5}{14}$
   3) $2\frac{3}{14}$
   4) $7\frac{11}{14}$
   5) None of these
3. $\frac{1}{5} \times \frac{5}{7} + \frac{6}{7} = ?$
   1) $\frac{1}{5}$
   2) $\frac{3}{5}$
   3) $\frac{1}{6}$
   4) $\frac{2}{7}$
   5) None of these
4. $2615 - 4361 + 2881 = ? \times 20$
   1) 65.75
   2) 58.75
   3) 54.25
   4) 64.25
   5) None of these
5. $3.5 \times (48 \div 1.5) = ?$
   1) 111
   2) 112
   3) 121
   4) 122
   5) None of these
6. 16.8% of 705 =?
   1) 116.88
   2) 109.66

3) 118.44
4) 121.22
5) None of these

7. 13% of 190 + ? = 111
   1) 68.7
   2) 93.3
   3) 24.7
   4) 71.3
   5) None of these
8. 628.88 – 410.25 + 153.05 =?
   1) 371.68
   2) 56.58
   3) 317.68
   4) 65.58
   5) None of these
9. $(5 \times 5 \times 5 \times 5 \times 5 \times 5)^2 (5 \times 5 \times 5 \times 5)^8 \div (5 \times 5)^3 = (25)^?$
   1) 22
   2) 13
   3) 17
   4) 19
   5) None of these
10. $\sqrt{?} - 12 = \sqrt{1296}$
   1) $\sqrt{2304}$
   2) $(48)^2$
   3) $\sqrt{48}$
   4) 48
   5) None of these
11. 8282 + 2828 = ? × 40
   1) 277.75
   2) 257.75
   3) 277.25
   4) 257.25
   5) None of these
12. 5% of 420 × ?% of 150 = 252
   1) 12
   2) 5
   3) 6
   4) 8
   5) None of these
13. 25 ÷ 0.5 – 0.5 =?

1) 25
2) 0
3) 36.5
4) 49.5
5) None of these

14. $5 \times ? = 2862 \div 3$
    1) 4770
    2) 195.4
    3) 4077
    4) 170.6
    5) None of these
15. $8080 \div 80 \div 8 = ?$
    1) 880
    2) 12.625
    3) 808
    4) 16.225
    5) None of these

Directions (Q.16 - 20): What approximate value should come in place of question mark (?) in the following questions? (Note: You are not expected to calculate the exact value.)

16. $9125 \div 90 \div 9 = ?$
    1) 27
    2) 3
    3) 7
    4) 21
    5) 11
17. $6666.009 - 585.999 - 79.989 = ?$
    1) 5000
    2) 5500
    3) 6500
    4) 4500
    5) 6000
18. $11.003 \times 10.998 + 111.01 = ?$
    1) 255
    2) 195
    3) 230
    4) 270
    5) 210
19. $(14.5)^2 = ?$
    1) 235

2) 190
3) 250
4) 185
5) 210

20. 765.0003 ÷ 44.999 =?
1) 17
2) 11
3) 6
4) 22
5) 30

Directions (Q.21 - 25): What should come in place of question mark (?) in the following number series?

21. 2 26 286 ? 18018 90090 270270
1) 3088
2) 2667
3) 3862
4) 2574
5) None of these

22. 358 356 352 344 328 296 ?
1) 232
2) 247
3) 225
4) 255
5) None of these

23. 8 ? 30 105 472.5 2598.75 16891.875
1) 24
2) 10
3) 12
4) 16
5) None of these

24. 3 4 ? 21 85 110 326
1) 7
2) 10
3) 12
4) 14
5) None of these

25. 50000 10000 2500 500 125 ? 6.25
1) 75
2) 25

3) 50
4) 31.5
5) None of these

26. Six women and 10 children together take six days to complete a piece of work. How many days will 10 children take to complete that piece of work if six women together can complete the same piece of work in 10 days?
1) 21
2) 18
3) 12
4) 15
5) None of these

27. The ratio of the monthly incomes of Sneha, Tina and Akruti is 95:110:116. If Sneha's annual income is Rs.3, 42,000, what is Akruti's annual income?
1) Rs.3, 96, 900
2) Rs.5, 63, 500
3) Rs.4, 17, 600
4) Rs.3, 88, 000
5) None of these

28. Meghna covered 3.36 km in four weeks by walking an equal distance each day. How many metres does she walk each day?
1) 100m
2) 60m
3) 140m
4) 120m
5) None of these

29. The average of four consecutive even numbers A, B, C and D is 37. What is the product of A and C?
1) 1520
2) 1368
3) 1292
4) 1224
5) None of these

30. The product of 5% of a positive number and 2% of the same number is 211.6. What is half of that number?
1) 230
2) 460
3) 920
4) 115
5) None of these

31. Find the missing number if the average of all the eight numbers is 474.
533, 128, 429, 225, _____, 305, 601, 804

1) 767
2) 781
3) 776
4) 758
5) None of these

32. The perimeter of a square is twice the perimeter of a rectangle. If the perimeter of the square is 56 cm and the length of the rectangle is 9 cm, what is the difference between the breadth of the rectangle and the side of the square?
    1) 7cm
    2) 9cm
    3) 11cm
    4) 5cm
    5) None of these
33. A truck covers a distance of 256 km at the speed of 32 kmh^{-1}. What is the average speed of a car which travels a distance of 160 km more than the truck in the same time?
    1) 46 kmh^{-1}
    2) 52 kmh^{-1}
    3) 49 kmh^{-1}
    4) 64 kmh^{-1}
    5) None of these
34. Sushil scored 103 marks in Hindi, 111 marks in Science, 98 marks in Sanskrit, 110 marks in Maths and 88 marks in English If the maximum marks "of each subject are equal and if Sushil scored 85 per cent marks in all the subjects together, find the maximum marks of each subject.
    1) 110
    2) 120
    3) 115
    4) 100
    5) None of these
35. A man riding a bicycle completes one lap of a square field along its perimeter at the speed of 39.6 kmh^{-1} in 1 minute 20 seconds. What is the area of the field?
    1) 52900 sq m
    2) 44100 sq m
    3) 48400 sq m
    4) Cannot be determined
    5) None of these
36. At present, Tarun is twice the age of Vishal and half the age of Tanvi. After four years, Tarun will be 1.5 times Vishal's age and Tanvi will be 2.5 times of Vishal's age. What is Tanvi's present age?
    1) 12 years
    2) 8 years
    3) 20 years
    4) 16 years

5) None of these

37. The difference between the compound interest and the simple interest accrued on an amount at the end of three years at the rate of 15% is Rs.453.6. What is the amount?
    1) Rs.4,500
    2) Rs.6,400
    3) Rs.7,200
    4) Rs.8,000
    5) None of these
38. Pankaj, Sanjay and Pratima start running around a circular stadium and complete one round in 12 see, 8 see and 15 see respectively. After what time will they meet again at the starting point?
    1) 3 min 30 sec
    2) One min
    3) Three min
    4) Two min
    5) None of these
39. On Teachers' Day, 3200 sweets were to be equally distributed among a certain number of children. But on that particular day 80 children remained absent and hence each child got two sweets extra. How many children were originally supposed to be there?
    1) 320
    2) 500
    3) 540
    4) 400
    5) Cannot be determined
40. What will come in place of both question marks (?) in the following question?
    $\frac{(?)^{1.6}}{96} = \frac{24}{(?)^{0.4}}$
    1) 58
    2) -38
    3) 46
    4) 36
    5) -48
41. The area of a circle is equal to the area of a rectangle with perimeter equal to 35 m and breadth equal to 5.5 m. What is the area of the circle?
    1) 88 sq m
    2) 72 sq m
    3) 66 sq m
    4) 54 sq m
    5) None of these
42. In an examination, the maximum aggregate marks is 1020. In order to pass the exam a student is required to obtain 663 marks out of the aggregate marks. Shreya obtained 612 marks. By what per cent did Shreya fail the exam?

1) 5%
2) 8%
3) 7%
4) Cannot be determined
5) None of these

43. Sujit incurred a loss of 45 per cent on selling an article for Rs.3,740. What was the cost price of the article?
1) Rs.5, 725
2) Rs.5, 080
3) Rs.6, 250
4) Rs.6, 400
5) None of these

44. In how many different ways can the letters of the word 'VIRTUAL' be arranged among themselves?
1) 840
2) 5040
3) 2520
4) 1680
5) None of these

45. A 480-metre-long.train crosses a platform in 140 seconds. What is the speed of the train?
1) 5m/s
2) 7m/s
3) 4.5m/s
4) Cannot be determined
5) None of these

46. The compound interest accrued in two years on a principal amount of Rs.16, 250 is Rs.5, 616. What is the rate of interest pcpa?
1) 22%
2) 16%
3) 18%
4) Cannot be determined
5) None of these

47. The average height of 21 girls was recorded as 148 cm. When the teacher's height was included, the average of their heights increased by 1 cm. What was the height of the teacher?
1) 156cm
2) 168cm
3) 170cm
4) 162cm
5) None of these

48. What would be the area of a circle whose diameter is 35 cm?
1) 962.5 sq cm

2) 875.5 sq cm
3) 981.5 sq cm
4) 886.5 sq cm
5) None of these

49. Mehul sold an item for Rs.5, 625 and incurred a loss of 25%. At what price should he have sold the item to gain a profit of 25 %?
1) Rs.9, 375
2) Rs.10, 500
3) Rs.8, 250
4) Cannot be determined
5) None of these

50. Out of the fractions $\frac{3}{5}, \frac{7}{9}, \frac{4}{7}, \frac{2}{3}$ and $\frac{5}{8}$, what is the difference between the largest and the smallest fractions?
1) $\frac{8}{63}$
2) $\frac{19}{63}$
3) $\frac{11}{63}$
4) $\frac{17}{63}$
5) None of these