

Quantitative Aptitude test

Directions : What should come in place of question mark (?) in the following questions ?

1. $2432 + ? = \sqrt{23104}$

1) 12 2) 14 3) 18

4) 16 5) None of these

2. $414 \times ? \times 7 = 127512$

1) 36 2) 40 3) 44

4) 48 5) None of these

3. $334/72 \times 406/58 + 167/15 = ?$

1) $7/12$ 2) $2(2/5)$ 3) $2(11/12)$

4) $3(1/5)$ 5) None of these

4. $515.15 - 15.51 - 1.51 - 5.11 - 1.11 = ?$

1) 491.91 2) 419.91

3) 499.19 4) 411.19

5) None of these

5. $3^{(8/\text{power})} \times 3^{(4/\text{power})} = ?$

1) $27^{(3/\text{power})}$

2) $81 \sqrt[3]{x}$

3) $27 \sqrt[5]{x}$

4) $729 \sqrt[3]{x}$

6. $[(24)\sqrt[2]{x} + 36 \sqrt[2]{x}] \div 25 = ?$

1) 70.75 2) 74.88

3) 78.68 4) 73.28

5) None of these

7. 26 % of 750 – 17% of 460 = ?

1) 122.7 2) 114.9

3) 107.7 4) 116.8

5) None of these

08. $7\sqrt[3]{x} \div 49\sqrt[2]{x} \times 343 = 7 \sqrt{(\quad - 2)}$

1) 2 2) 4 3) 3 4) 5

5) None of these

09. $2\frac{1}{3}$ of $1\frac{1}{4}$ of $(?) = 315$

1) 134 2) 124 3) 126

4) 108 5) None of these

10. $(42.8 \times 6 \times 5) \div 12 - 10\sqrt[2]{x} = (\sqrt[2]{x})\sqrt[2]{x}$

1) $7^2 \sqrt[3]{107^2}$

4) $-7^5 49$

11. $1\frac{1}{7} - 1\frac{1}{9} + 1\frac{1}{63} = ?$

1) $1\frac{3}{63}$ 2) $1\frac{1}{21}$

3) $2\frac{1}{21}$

4) $1\frac{4}{63}$

5) None of these

12. $87.39 - 51.75 + 69.73 = ? + 52.42$

1) 51.74

2) 65.65

3) 52.95

4) 65.74

5) None

13. $0.8 \times 1.6 \div 0.5 \times 12 = ?$

1) 20.52

2) 30.72

3) 32.42

4) 21.52

5) None of these

14. $\sqrt{54 \times 24 + 18 + 26 - 73} = ?$

- 1) $\sqrt{5}$
- 2) $25^{(power) 2}$
- 3) 25
- 4) 5
- 5) None of these

15. $12^{(power) 2} - 4^{(power) 3} - \sqrt{729} + 11 = (?)^{(power) 2}$

- 1) $\sqrt{32}$
- 2) 64
- 3) $\sqrt{54}$
- 4) 53
- 5) 8

16. A sum of money is divided among A, B, C and D in the ratio of 3 : 4 : 9 : 10 respectively. If the share of C is Rs. 2,580 more than the share of B, then what is the total amount of money of A and D together ?

- 1) Rs. 5,676
- 2) Rs. 6,192
- 3) Rs. 6,708
- 4) Rs. 7,224
- 5) None of these

17. a, b, c and d are four consecutive numbers, if the sum of a and d is 103, what is the product of b and c ?

- 1) 2652 2) 2562

3) 2970 4) 2550 5) None

18. The area of a square plot is twice the area of a rectangular plot. If the length of the rectangular plot is 36 metres and the area of the square plot is 1764 square metres. What is the breadth of the rectangular plot ?

1) 24.5 metres 2) 20 metres

3) 15.5 metres

4) Can't be determined

5) None of these

19. A man earns 6% S.I on his deposits in Bank A while he earns 8% simple interest on his deposits in Bank B. If the total interest is Rs. 1800 in three years on an investment of Rs. 9000, what is the amount invested at 6% ?

1) 3000 2) 6000

3) 4000 4) 4500 5) None

20. Kruti took a loan at simple interest of 6% in the first year with an increase of 0.5% in each subsequent year. She paid interest of ₹ 3,375 after four years. How much loan did she take ?

1) Rs. 12,500

2) Rs. 33,250

3) Rs. 15,800

4) Can't be determined

5) None of these

Directions : What should come in place of the question mark (?) in the following number series ?

21. 963 927 855 747 603 423 ?

1) 209 2) 208

3) 207 4) 206 5) 205

22. 18 20 44 138 560 2810 ?

1) 16818 2) 16838

3) 16854 4) 16872 5) 16890

23. 1200 480 192 76.8 30.72 12.288 ?

1) 4.9152 2) 5.8192

3) 6.7112 4) 7.6132

5) 8.5172

24. 5 9 18 34 59 95 ?

1) 272 2) 168

3) 116 4) 148 5) 144

25. 841 961 1089 1225 1369 1521 ?

1) 1581 2) 1681

3) 1781 4) 1881 5) 1981

Directions : Study the pie-chart carefully to answer the questions that follow :

Total number of students = 8000

26. Students having IR as specialization forms approximately what per cent of students having HR as specialization ?

1) 87 2) 106 3) 76 4) 62 5) 114

27. What is the respective ratio of the students having Finance as specialization to that of students having HR as specialization ?

1) 11:19 2) 18:13 3) 6:7

4) 12:21 5) None of these

28. What is the total number of students having specialization in IR, Marketing and IT ?

1) 4640 2) 4080

3) 4260 4) 4400

5) None of these

29. What is the total number of students having 1B as specialization ?

1) 1520 2) 1280

3) 1360 4) 1120

5) None of these

30. Students having IB as specialization forms approximately what per cent of students having Marketing as specialization ?

1) 116 2) 86 3) 124

4) 74 5) 66

31. The product of two numbers is 120 and the sum of their squares is 289. The sum of the two numbers is:

1) 23 2) 200 3) 13

4) 169 5) None of these

32. 150 metres long train crosses a bridge of length 250 metres in 30 seconds. Find the time for train to cross a platform of 130 metres ?

1) 20 secs 2) 21 secs

3) 30 secs 4) 18 secs

5) None of these

33. 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 he has ?

1) 30 2) 60 3) 75

4) 90 5) None of these

34. If the simple interest for 6 years be equal to 30% of the principal, it will be equal to the principal after ?

1) 20 years 2) 30 years

3) 10 years 4) 22 years

5) None of these

35. The average weight of 29 students in a class is 48 kg. If the weight of the teacher is included, the average weight rises by 500g. Find the weight of the teacher ?

- 1) 57 kg 2) 60 kg
- 3) 65 kg 4) 63 kg 5) None

36. There are two candidates Balu and Murali for an election. Balu gets 65% of the total valid votes. If the total votes were 6,000 what is the number of valid votes that the other candidate Murali gets if 25% of the total votes were declared invalid ?

- 1) 1575 2) 1625
- 3) 1675 4) 1525 5) None

37. Sonali spent ? 45760 on the interior decoration for her home, Rs. 27896 on buying Air conditioner and the remaining 28% of the total amount she had as cash with her. What was the total amount ?

- 1) Rs. 98540 2) Rs. 102300
- 3) Rs. 134560
- 4) Can't be determined
- 5) None of these

38. The diameter of a circle is equal to the perimeter of a square whose area is 3136 sq cms. What is the circumference ?

- 1) 352 cms
- 2) 704 cms
- 3) 39424 cms
- 4) Can't be determined
- 5) None of these

39. The average of the ages of Sunil, Krishna and Ravi is 43 and the average of the ages of Sunil, Ravi and Rohit is 49. If Rohit is 54 years old, what is Krishna's age ?

- 1) 45 years 2) 24 years
- 3) 36 years
- 4) Can't be determined
- 5) None of these

40. Milka purchased an item for Rs. 7,200/- and sold it at the gain of 25%. From that amount he purchased another item and sold it at the loss of 25%. What is his overall gain/ loss ?

- 1) Loss of Rs. 540
- 2) Gain of Rs. 420
- 3) Loss of Rs. 450
- 4) Neither gain nor loss
- 5) None of these

Directions : What approximate value will come in place of the question mark (7) in the following questions ? (You are not expected to calculate the exact value.)

41. $465.84 + 764.86 - 211.99 = ?$

- 1) 1100 2) 1080
- 3) 1000 4) 1020 5) 1060

42. $149.9\% \text{ of } 149.9 + 149.9 = ?$

- 1) 375 2) 400

3) 350 4) 425 5) 450

43. $3001 \times 749 \div 1001 - 1399 = ?$

1) 650 2) 700

3) 950 4) 850 5) 1000

44. $\sqrt{2642} - \sqrt{1156} + \sqrt{459} = ?$

1) 50 2) 90 3) 40

4) 20 5) 30

45. $901/29 \times 91/301 \div 51/599 = ?$

1) 140 2) 120 3) 60 4) 80 5) 110

Directions : Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

1) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer .

2) If the data in statement II alone are sufficient to answer the question, while the data in statements I alone are not sufficient to answer the question.

3) If the data either in statement I alone or in statement II alone are sufficient to answer the question.

4) If the data in both statement I & II together are not sufficient to answer the question.

5) If the data in both statement I & II together are necessary to answer the question.

46. In how many days will Five women complete a work ?

I. Two women, Five boys and three men together complete the work in eight days.

II. Six women complete the same work in sixteen days.

147. What is Sonu's monthly income ?

I. Rita's monthly income is Rs. 5,000 more than Sonu's monthly income.

II. Sonu's monthly income is Rs. 8,000 more than Sohan's monthly income.

148. What will be Pravin's age after 4 years ?

I. The ratio between Pravin's and Sheka1's present age is 2 : 3 respectively.

II. Shekhar is six years older than Pravin.

49. What is the area of a circle?

I. The radius of the circle is equal to length of a rectangle.

II. The breadth of the rectangle is equal to 22 cm.

50. What is the average speed of a car ?

I. Average speed of the car is four times average speed of a truck which covers 220 km in 11 hours.

II. Average speed of the truck is half the average speed of a train whereas the average speed of a jeep is 40 km/hr.

Answers :

1) 4 2) 3 3) 3 4) 1 5) 2 6) 2 7) 4 (8) 2 9) 4 10) 2 11) 2 12) 3 13) 2 14) 4 15) 5 16) 3 17) 1 18) 1 19) 2 20)
1 21) 3 22) 4 23) 1 24) 5 25) 2 26) 5 27) 3 28) 4 29) 1 30) 2 31) 1 32) 2 33) 4 34) 1 35) 4 36) 1 37) 2 38)
2 39) 3 40) 3 41) 4 42) 1 43) 4 44) 3 45) 5 46) 2 47) 4 48) 5 49) 4 50) 1