

Directions (1-25): What should come on place of question mark (?) in the following questions ?

1. $\sqrt{441 - 41} \times 42 + 7 = ?$
 (a) 20 (b) 60
 (c) 180 (d) 120
 (e) None of these
2. $\frac{7}{\sqrt{25}} = \frac{15 \times 4 - 40}{2}$
 (a) 20 (b) 45
 (c) 25 (d) 30
 (e) None of these
3. $621 + 27 \times 2 - 37 = \sqrt{?}$
 (a) 9 (b) $\sqrt{9}$
 (c) 81 (d) $3\sqrt{3}$
 (e) None of these
4. $453 - 336 + 110 = ? + 31$
 (a) 194 (b) 196
 (c) 186 (d) 256
 (e) None of these
5. $4\frac{1}{5} \times 4\frac{2}{7} + 3\frac{1}{3} = ?$
 (a) $2\frac{2}{5}$ (b) $4\frac{3}{8}$
 (c) $4\frac{2}{5}$ (d) $6\frac{1}{8}$
 (e) None of these
6. $1701 + 4011 - 3624 - 1113 = ?$
 (a) 965 (b) 975
 (c) 875 (d) 865
 (e) None of these
7. $(656 + 164)^2 = \sqrt{?}$
 (a) 4 (b) 16
 (c) 64 (d) 256
 (e) None of these
8. $97 + 710 - 143 = 4 \times ?$
 (a) 166 (b) 664
 (c) 156 (d) 332
 (e) None of these
9. 36% of $250 \times 18\%$ of $50 = ? + 10$
 (a) 820 (b) 810
 (c) 790 (d) 800
 (e) None of these
10. $\frac{7}{36}$ of 20% of $540 = ?$
 (a) 21 (b) 14
 (c) 20 (d) 30
 (e) None of these
11. $653 + 212 - 158 = ? + 109$
 (a) 588 (b) 578
 (c) 598 (d) 498
 (e) None of these
12. $368 + 23 \times 9 - 104 = ? - 43$
 (a) 83 (b) 73
 (c) 59 (d) 84
 (e) None of these
13. $5^2 - 4^2 + 7^2 - 6^2 = \sqrt{?}$
 (a) $\sqrt{22}$ (b) $(22)^2$
 (c) 22 (d) $11\sqrt{2}$
 (e) None of these
14. $23 + 7 \times 19 - 14 = ?$
 (a) 141 (b) 241
 (c) 242 (d) 142
 (e) None of these
15. $8^{(2.6)} \times 2^{(1.7)} + 16^{(1.3)} = 2^{(?)}$
 (a) 5.7 (b) 4.8
 (c) 7.1 (d) 5.8
 (e) None of these
16. $3\frac{2}{7} - 1\frac{3}{14} - 1\frac{1}{28} = ?$
 (a) $2\frac{1}{14}$ (b) $1\frac{3}{28}$
 (c) $2\frac{1}{28}$ (d) $1\frac{3}{14}$
 (e) None of these
17. 56% of $150 - 56 = ?$
 (a) 23 (b) 28
 (c) 38 (d) 32
 (e) None of these
18. $\sqrt{176 \times 2 + 3^2} - 4^2 + \sqrt{?}$
 (a) 3 (b) $\sqrt{3}$
 (c) 81 (d) 27
 (e) None of these

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19. $\frac{3}{11}$ of $\frac{2}{13}$ of 429 = ?
 (a) 12 (b) 9
 (c) 18 (d) 24
 (e) None of these
20. 24% of 250 - ? = 18% of 50
 (a) 51 (b) 69
 (c) 71 (d) 39
 (e) None of these
21. $(3)^2 + (4)^2 - \sqrt{676} = (?)^2$
 (a) $\sqrt{3}$ (b) 63
 (c) $\sqrt{63}$ (d) 9
 (e) 7
22. $\frac{5}{19}$ of 57% of 480 = ?
 (a) 64 (b) 48
 (c) 72 (d) 78
 (e) None of these
23. $0.6 \times 18 + 0.5 \times 12 = ?$
 (a) 24.92 (b) 25.92
 (c) 18.46 (d) 17.46
 (e) None of these
24. $\frac{7}{12} - \frac{3}{4} + \frac{2}{3} = ?$
 (a) $\frac{5}{6}$ (b) $\frac{5}{12}$
 (c) $\frac{1}{2}$ (d) $\frac{1}{6}$
 (e) None of these
25. $18 \times 8 + 117 + 35 - 158 = ?$
 (a) 148 (b) 158
 (c) 115 (d) 138
 (e) None of these
26. If the total cost of four tube lights and three bulbs is ₹ 260 and the ratio between the cost of a tube light and a bulb is 5:2 respectively. What is the total cost of one tube light and six bulbs?
 (a) ₹ 210 (b) ₹ 130
 (c) ₹ 180 (d) ₹ 170
 (e) None of these
27. Three-tenth of a number is equal to 36% of another number. If the sum of these two number is 88, Then what is the value of the smaller number.
 (a) 38 (b) 40
 (c) 48 (d) 34
 (e) None of these
28. The sum of the present age of Ram, Shyam and Vijay is 72 years. Also the sum of the present age of Ram and Shyam is 42 years. What is the present age of Vijay?
 (a) 30 years (b) 24 years
 (c) 18 years (d) 36 years
 (e) None of these
29. The compound interest accrued on a sum of ₹7500 in two years is ₹ 927. What would be the rate of interest p.c.p.a.?
 (a) 5.4% (b) 8%
 (c) 6% (d) 8.4%
 (e) 5%
30. Sohan spends 23% of an amount of money on an insurance policy, 33% on food, 19% on children's education and 16% on recreation. He deposits the remaining amount of ₹ 504 in bank. How much total amount did he spend on food and insurance policy together?
 (a) ₹ 3200 (b) ₹ 3126
 (c) ₹ 3316 (d) ₹ 3048
 (e) None of these
31. What least number should be subtracted from 9889 to make it a perfect square number?
 (a) 84 (b) 88
 (c) 108 (d) 74
 (e) None of these
32. In how many different ways can the letters of word POWERS be arranged?
 (a) 640 (b) 720
 (c) 1440 (d) 360
 (e) None of these
33. Five-ninth of sixty two percent of a numbers is equal to 2790. What is the number?
 (a) 8100 (b) 7200
 (c) 6300 (d) 8500
 (e) None of these
34. The difference between the circumferences of two circles is 132 cm and the radius of smaller circle is 14 cm. What is the radius of larger circle?
 (a) 14cm (b) 21cm
 (c) 30cm (d) 42cm
 (e) None of these
35. In a test, minimum passing percentage for reserved and unreserved category is 40% and 54% respectively. A candidate from unreserved category secured 300 marks and failed by 24 marks. What are the minimum passing marks for reserved category in that test?
 (a) 280 (b) 254
 (c) 230 (d) 240
 (e) None of these
36. Saurabhi invested ₹ 16,840 at 6% for 5 years. How much amount will she receive including simple interest in 5 years?

- (a) ₹ 20,984 (b) ₹ 21,764
(c) ₹ 20,584 (d) ₹ 21,892
(e) None of these

37. Average age of 60 boys of a class was calculated to be 12 years on rechecking it was noticed that the age of one boy was wrongly taken as 14 years instead of the correct one of 12.5 years. The correct average age is:

- (a) 11 (b) 11.275
(c) 11.5 (d) 11.975
(e) None of these

38. What approximate value should come in place of question mark (?) in the following question $9685 + 356 \times 12.5 = ?$

- (a) 330 (b) 325
(c) 360 (d) 335
(e) 340

39. Birju, Bankim and Bori start at the same time in the same direction to run around a circular stadium. They complete their round in 36, 48, and 63 second respectively, all starting at the same point. After what time will they meet again at starting point.

- (a) 1008 second (b) 956 second
(c) 848 second (d) 1336 second
(e) None of these

40. Find the average of the following set of scores

746, 1020, 321, 12, 63, 428, 226, 144

- (a) 367.5 (b) 370
(c) 360 (d) 368.75
(e) None of these

41. 846 times 323 is equal to:

- (a) 280872 (b) 276488
(c) 273258 (d) 272412
(e) None of these

42. A canteen requires 28 kg of sugar in one week. How much sugar will it require in March and April?

- (a) 248kg
(b) 240kg
(c) 250kg
(d) Cannot be determined
(e) None of these

43. Sum of digits of a two digit number is 15. Difference of digits is 3. Find product of both digits.

- (a) 72
(b) 56
(c) 54
(d) Cannot be determined
(e) None of these

44. Sushil runs consistently 4km everyday. He runs one kilometer more on Saturday and Sunday. How many kilometers in all does he run in 2 weeks?

- (a) 40 km (b) 60 km
(c) 50 km (d) 70 km
(e) None of these

45. Ratio of internal angle of a triangle is 19:10:7. Find sum of twice the smallest angle and largest angle.

- (a) 165° (b) 185°
(c) 155° (d) 175°
(e) None of these

46. In how many ways letters of the word 'TABLE' be arranged?

- (a) 360 (b) 720
(c) 60 (d) 180
(e) None of these

Direction (47-49) : What should come in place of the question mark (?) in the following

study material questions.

47. 3 4 13 38 87 ?

- (a) 178 (b) 188
(c) 158 (d) 186
(e) None of these

48. 11 16 26 41 61 ?

- (a) 68 (b) 72
(c) 78 (d) 86
(e) None of these

49. 150 148 144 136 120 ?

- (a) 89 (b) 86
(c) 88 (d) 83
(e) None of these

50. Yesterday a man travelled 360 km in 8 hrs. Find distance travelled in 10hrs with $\frac{1}{3}$ of former speed.

- (a) 150 km (b) 160 km
(c) 140 km (d) 130 km
(e) None of these