

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

- $120 + 24 \times 36 + 8 = ?$
 (a) 188 (b) 180
 (c) 184 (d) 182
 (e) None of these
- $6850 + 25 + ? - 24 = 30.8$
 (a) 4 (b) 10
 (c) 6 (d) 5
 (e) None of these
- $39851 + 42305 = 122678 - ?$
 (a) 82156 (b) 40522
 (c) 45022 (d) 60256
 (e) None of these
- $98 \times 64 - 3504 = ?$
 (a) 2572 (b) 2768
 (c) 2964 (d) 2732
 (e) None of these
- $113698 - 105697 - 3058 = ?$
 (a) 4493 (b) 4934
 (c) 4943 (d) 4953
 (e) None of these
- $(25 \times 6000) + 150 \times 45 = ?$
 (a) 4500 (b) 50000
 (c) 5000 (d) 45000
 (e) None of these
- $\sqrt[3]{2197} \times \sqrt[3]{729} = ?$
 (a) 117 (b) 91
 (c) 126 (d) 99
 (e) None of these
- $(6)^2 + (8)^2 \times (2)^2 - (9)^2 = ?$
 (a) 215 (b) 209
 (c) 221 (d) 211
 (e) None of these
- $7008 + 24 + 6208 + 16 = ?$
 (a) 640 (b) 720
 (c) 700 (d) 690
 (e) None of these
- $\frac{3}{4}$ of $\frac{3}{5}$ of $\frac{2}{3}$ of ? = 3174
 (a) 10550 (b) 10540
 (c) 10580 (d) 10500
 (e) None of these
- $(5)^{3.5} \times (5)^{0.5} \times (5)^{2.5} + (5)^{0.5} = (5)^{2.5}$
 (a) 5.4 (b) 5.2
 (c) 5.6 (d) 5.5
 (e) None of these
- $45\% \text{ of } 3204 - 48\% \text{ of } ? = 911.40$
 (a) 1050 (b) 1105
 (c) 1150 (d) 1005
 (e) None of these
- $48\% \text{ of } 350 \times \frac{3}{4} = ?$
 (a) 42 (b) 128
 (c) 126 (d) 48
 (e) None of these
- $(5436 + 2402 + 1148) + ? = 449.30$
 (a) 20 (b) 24
 (c) 22 (d) 18
 (e) None of these
- $\sqrt{1296} \times \sqrt{1764} + ? = (39)^2$
 (a) 9 (b) 7
 (c) 11 (d) 5
 (e) None of these
- $44616 + \sqrt{?} = 143 \times 6$
 (a) 2704 (b) 2304
 (c) 52 (d) 48
 (e) None of these
- $9.4 \times 2.5 \times 9.7 - 29.26 = ?$
 (a) 185.29 (b) 162.66
 (c) 187.29 (d) 198.66
 (e) None of these
- $8^3 \times 3^3 - 21^2 = ?$
 (a) 18833 (b) 18333
 (c) 13383 (d) 13833
 (e) None of these
- $\sqrt{?} + 43 = \sqrt{19881}$
 (a) 9604 (b) 7744
 (c) 9216 (d) 8464
 (e) None of these
- $5768 + 112 = ?$
 (a) 45.4 (b) 68.5
 (c) 39.4 (d) 51.5
 (e) None of these
- $15127 + 4323 - 825 = ? \times 25$
 (a) 625 (b) 745
 (c) 714 (d) 698
 (e) None of these
- $17\frac{2}{5} \times 4\frac{5}{8} - ? = 46\frac{7}{8}$
 (a) $32\frac{3}{5}$ (b) $33\frac{3}{5}$

(c) $33\frac{2}{5}$

(d) $32\frac{7}{5}$

(e) None of these

23. $\sqrt{12 \times 184 + 23 + 26 - 73} = ?$

(a) $\sqrt{7}$

(b) 7

(c) 7^2

(d) 49^2

(e) None of these

24. $(6)^n + (36)^n \times 216 = 6^{n+3}$

(a) 4

(b) 6

(c) 7

(d) 1

(e) None of these

25. $(92 - 101) \div 3 = ? \div (-5)$

(a) -15

(b) -0.6

(c) 15

(d) 0.6

(e) None of these

26. Out of 5 women and 4 men, a committee of three members is to be formed in such a way that at least one member is a woman. In how many different ways can this be done?

(a) 80

(b) 84

(c) 76

(d) 96

(e) None of these

27. The present ages of Amit and his father are in the ratio of 2 : 5 respectively. Four years hence the ratio of their ages will become 5 : 11 respectively. What was the father's age ~~in~~ ^{years} ago?

(a) 40 years

(b) 45 years

(c) 30 years

(d) 35 years

(e) None of these

28. Twice the square of a number is six times the other number. What is the ratio of the first number to the second?

(a) 1 : 4

(b) 2 : 5

(c) 1 : 3

(d) Cannot be determined

(e) None of these

29. Manoj sold an article for ₹ 15,000. Had he offered a discount of 10% on the selling price, he would have earned a profit of 8%. What is the cost price?

(a) ₹ 12,500

(b) ₹ 13,500

(c) ₹ 12,250

(d) ₹ 13,250

(e) None of these

30. The cost of 8 pens and 4 pencils is ₹ 176 and the cost of 2 pens and 2 pencils is ₹ 48. What is the cost of one pen?

(a) ₹ 16

(b) ₹ 14

(c) ₹ 12

(d) ₹ 18

(e) None of these

31. In how many different ways can the letters of the word TOTAL be arranged?

(a) 120

(b) 60

(c) 48

(d) 72

(e) None of these

32. If the area of a circle is 616 cm^2 , what is its perimeter?

(a) 76 cm

(b) 84 cm

(c) 96 cm

(d) 80 cm

(e) None of these

33. A truck covers 448 kms in 8 hours. The average speed of a bicycle $\frac{1}{4}$ th the average speed of the truck. How much distance will the bicycle cover in 7 hours?

(a) 92 kms

(b) 98 kms

(c) 95 kms

(d) 96 kms

(e) None of these

34. What will be the compound interest accrued on a principle amount of ₹ 12000/- at the rate of 4 p.c.p.a after a period of 2 years?

(a) ₹ 971.5

(b) ₹ 973.4

(c) ₹ 979.2

(d) ₹ 975.9

(e) ₹ 61

35. 35% of a number is 182. What is 130% of that number?

(a) 676

(b) 667

(c) 673

(d) 663

(e) None of these

36. If the following fractions are arranged in a ascending order (from left to right), which of them will be second from the left end?

$$\frac{4}{7}, \frac{7}{9}, \frac{1}{5}, \frac{8}{11}, \frac{2}{9}$$

(a) $\frac{2}{9}$

(b) $\frac{4}{7}$

(c) $\frac{7}{9}$

(d) $\frac{8}{11}$

(e) $\frac{1}{5}$

37. Manjeet spend 12% on bills, 22% on rent and 28% on shopping. $\frac{1}{4}$ th the remaining amount is

₹ 3,610. How much did he spend on bills?

(a) ₹ 4,580

(b) ₹ 4,530

(c) ₹ 4,520

(d) ₹ 4,560

(e) None of these

38. The side of a square is twice the radius of a circle. The area of the square is 9604 sq. cms . What is the area of the circle?

(a) 7545 sq. cm

(b) 7543 sq. cm

(c) 7548 sq. cm

(d) 7549 sq. cm

(e) None of these

39. The average of five numbers is 40.8. The average of the first and the second number is 46. The average of the fourth and the fifth number is 37. What is the third number?

(a) 36

(b) 34

(c) 38

(d) 32

(e) None of these

40. Bina scored 110 marks in English, 135 marks in Science, 140 marks in Mathematics, 120 marks in Hindi and 115 marks in Social studies. The maximum marks a student can score in each subject is 150. How much approximate percentage did Bina get in this exam?

(a) 83 (b) 89
(c) 72 (d) 95
(e) 90

Directions (41-43): The following questions are based on the given information.

A publisher published 3400 copies of a book. 28% of the total copies were sold in city A, 32% of the total copies were sold in city B, 27% of the total copies were sold in city C. The remaining copies are yet to be sold.

41. How many copies were sold in city B and city C together?

(a) 1833 (b) 1838
(c) 1836 (d) 1832
(e) None of these

42. What is the difference between the number of copies sold in city A and city C?

(a) 210 (b) 202
(c) 200 (d) 208
(e) None of these

43. How many copies are yet to be sold?

(a) 614 (b) 612
(c) 616 (d) 618
(e) None of these

44. What is the least number that can be added to 4700 to make it a perfect square?

(a) 65 (b) 66
(c) 63 (d) 64
(e) None of these

45. 21 binders can bind 1400 books in 15 days. How many binders will be required to bind 800 books in 20 days?

(a) 7 (b) 9
(c) 12 (d) 14
(e) None of these

Directions (46-50): Study the following Pie-chart carefully to answer these questions.

Total students = 6500
Percentage wise distribution of students in different courses



46. What is the value of half of the difference between the number of students in MBA and MBBS?

(a) 800 (b) 1600
(c) 1300 (d) 650
(e) None of these

47. What is the total number of students in B.Ed. Pharmacy and MBBS together?

(a) 2465 (b) 2565
(c) 2405 (d) 2504
(e) None of these

48. How much more percentage (approximately) students are in MBA as compared to students in B.Ed.?

(a) 49 (b) 53
(c) 59 (d) 41
(e) 44

49. Number of students in B.Sc. is approximately what percentage of the number of students in B.Ed.?

(a) 167 (b) 162
(c) 157 (d) 153
(e) 150

50. What is the respective ratio between the number of students in Pharmacy and the number of students in B.Tech.?

(a) 11 : 13 (b) 13 : 6
(c) 13 : 7 (d) 6 : 13
(e) None of these