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

1. $653 + 212 - 158 = ? + 109$
   (a) 588 (b) 578
   (c) 598 (d) 498
   (e) None of these

2. $368 \div 23 \times 9 - 104 = ? - 43$
   (a) 83 (b) 73
   (c) 84 (d) 59
   (e) None of these

3. $5^2 - 4^2 + 7^2 - 6^2 = \sqrt{?}$
   (a) $\sqrt{22}$ (b) $(22)^2$
   (c) 22 (d) $11\sqrt{2}$
   (e) None of these

4. $23 + 7 \times 19 - 14 = ?$
   (a) 141 (b) 241
   (c) 242 (d) 142
   (e) None of these

5. $8^{(2.4)} \times 2^{(3.7)} + 16^{(1.3)} = 2^{(?)}$
   (a) 5.7 (b) 4.8
   (c) 7.1 (d) 5.8
   (e) None of these

6. $3\frac{2}{7} - 1\frac{3}{14} - 1\frac{1}{28} = ?$
   (a) $2\frac{1}{14}$ (b) $1\frac{3}{28}$
   (c) $2\frac{1}{28}$ (d) $1\frac{3}{14}$
   (e) None of these

7. 56% of 150 – 56 = ?
   (a) 23 (b) 28
   (c) 38 (d) 32
   (e) None of these

8. $\sqrt{176 \times 2 + 3^2} = 4^2 + \sqrt{?}$
   (a) 3 (b) $\sqrt{3}$
   (c) 81 (d) 27
   (e) None of these

9. $\frac{3}{11}$ of $\frac{2}{13}$ of 429 = ?
   (a) 12 (b) 9
   (c) 18 (d) 24
   (e) None of these

10. 24% of 250 – ? = 18% of 50
    (a) 51 (b) 69
    (c) 71 (d) 59
    (e) None of these

11. 37.82 – 11.47 + 96.41 = ?
    (a) 122.66 (b) 121.7
    (c) 121.66 (d) 122.7
    (e) None of these

12. 1234 + 2345 – 3456 + 4567 = ?
    (a) 4590 (b) 4682
    (c) 4670 (d) 4690
    (e) None of these

13. $\sqrt{18} + \sqrt{32} - \sqrt{50} = ?$
    (a) $2\sqrt{2}$ (b) $4\sqrt{2}$
    (c) $3\sqrt{2}$ (d) $\sqrt{2}$
    (e) None of these

14. $1\frac{3}{4} - 1\frac{1}{5} + 1\frac{5}{8} = ?$
    (a) $3\frac{7}{40}$ (b) $2\frac{7}{40}$
    (c) $10\frac{7}{8}$ (d) $9\frac{5}{8}$
    (e) None of these

15. $41 \times 72 \div 8 \div 3 = ?$
    (a) 133 (b) 121
    (c) 113 (d) 131
    (e) None of these

16. $9408 \div \sqrt{?} = 336 + 9100$
    (a) 676 (b) 28
    (c) 26 (d) 576
    (e) None of these

17. $16 + 34 \times 84 \div 14 = ?$
    (a) 190 (b) 205
    (c) 220 (d) 235
    (e) None of these

18. 55% of 680 – ? = 286
    (a) 83 (b) 85
    (c) 87 (d) 89
    (e) None of these

19. $15368 + 8153 - 729 = ? \times 56$
    (a) 546 (b) 313
    (c) 679 (d) 407
    (e) None of these

20. $8153 + 1492 = ? - 6176$

(a) 13870 (b) 14960
(c) 16750 (d) 15820
(e) None of these

21. $\sqrt{2304} \times \sqrt{?} = 2832$

(a) 3249 (b) 3481
(c) 3721 (d) 3969
(e) None of these

22. $74698 + 365 + 85213 + 95 = ?$

(a) 160281 (b) 160641
(c) 160371 (d) 160362
(e) None of these

23. $\frac{6.4 \times 8.5 \times 2.5}{3.2 \times 12.5} = ?$

(a) 4.4 (b) 3.5
(c) 4.2 (d) 3.4
(e) None of these

24. $\sqrt[3]{103823} = ?$

(a) 49 (b) 51
(c) 45 (d) 37
(e) None of these

25. $(444 \times 44 \times 4) \div 40 = ?$

(a) 1953.6 (b) 176
(c) 1776 (d) 1736.5
(e) None of these

26. The length of a rectangle is 13 cm which is 5 cm more than its breadth. Which is the perimeter of the rectangle?

(a) 42 cm (b) 62 cm
(c) 21 cm (d) 37 cm
(e) None of these

27. 3 men can complete a piece of work in 20 days. In how many days can 10 men complete the same piece of work?

(a) 8 days (b) 4 days
(c) 6 days (d) 5 days
(e) None of these

28. At what rate will a man get a simple interest of ₹ 1,071 on a principal of ₹ 2,550 in 3 years?

(a) 12 pcpa (b) 14 pcpa
(c) 16 pcpa (d) 18 pcpa
(e) None of these

29. The cost of 6 pens and 3 pencils is ₹ 84. One-third of the cost of one pen is equal to the cost of one pencil. What is the total cost of 4 pens and 5 pencils?

(a) ₹ 66 (b) ₹ 78
(c) ₹ 68 (d) ₹ 72
(e) None of these

30. What is the value of twenty-five percent of two-fifth of 760?

(a) 38 (b) 76
(c) 304 (d) 256
(e) None of these

31. Raja scored 84 marks in science, 57 marks in English, 67 marks in social studies, 81 marks in Mathematics and 78 marks in Hindi The maximum marks of each subject is 100. Find overall % marks of Raja.

(a) 73.7 (b) 68.4
(c) 73.4 (d) 74.4
(e) None of these

32. If a number is subtracted from 13^2 the value so obtained is 88. What is the value of two-third of the number?

(a) 45 (b) 63
(c) 81 (d) 27
(e) None of these

33. The diameter of a circle is 3.5 cm. What is the circumference of the circle?

(a) 22 cm (b) 11 cm
(c) 38.5 cm (d) 45.2 cm
(e) None of these

34. What will come is place of both the question marks (?) in the following question?

$$\frac{?}{18} = \frac{8}{?}$$

(a) 12 (b) $\sqrt{12}$
(c) 36 (d) 54
(e) None of these

35. Out of the fractions $\frac{3}{7}, \frac{2}{9}, \frac{4}{13}, \frac{6}{11}$ and $\frac{7}{9}$, which is the second largest fraction?

(a) $\frac{3}{7}$ (b) $\frac{2}{9}$
(c) $\frac{4}{13}$ (d) $\frac{6}{11}$
(e) $\frac{7}{9}$

36. When a square of a number is subtracted from $(72)^2$ the answer so obtained is 2583. What is the number?

(a) 2601 (b) 49
(c) 2401 (d) 53
(e) None of these

37. A bag contains eight 25 paise coins, twelve 50 paise coins, fifteen 1 rupee coins, six 2-rupee coins and five 5-rupee coins. What is the total amount in the bag?
(a) ₹ 60 (b) ₹ 75
(c) ₹ 125 (d) ₹ 65
(e) None of these

38. The respective ratio of the present ages of Sita and Geeta is 8 : 9. The sum of their ages is 68. What will be the respective ratio of their ages 10 years hence?
(a) 15 : 16 (b) 23 : 14
(c) 7 : 8 (d) 21 : 23
(e) None of these

39. The average of 4 consecutive odd numbers A, B, C, D is 44. What is the product of A and D?
(a) 1763 (b) 1677
(c) 1845 (d) 2021
(e) None of these

40. The owner of a computer shop charges his customer 13% more than the cost price. If a customer paid ₹ 15, 933 for a computer, then what was the cost price of the computer ?
(a) ₹ 14,100 (b) ₹ 16,500
(c) ₹ 12,700 (d) ₹ 18,200
(e) None of these

41. In a class of 40 students and 5 teachers, each student got sweets that are 15% of the total number of students and each teacher got sweets that are 20% of the total number of students. How many sweets were there ?
(a) 360 (b) 260
(c) 240 (d) 320
(e) None of these

42. If an amount of ₹ 85,470 is distributed equally amongst the 35 children. How much amount would each child get?
(a) ₹ 2542 (b) ₹ 2442
(c) ₹ 2452 (d) ₹ 2552
(e) None of these

43. A single person takes 8 minutes to type a page. If from 1.00 p.m. to 2.00 p.m., 1710 pages are to be typed, how many persons should be employed on this job?
(a) 256 (b) 221
(c) 249 (d) 207
(e) None of these

44. What is the compound interest accrued on an amount of ₹ 12,000 at the rate of 9 p.c.p.a. at the end of 2 years ?
(a) ₹ 2775.40 (b) ₹ 2257.20
(c) ₹ 2545 (d) ₹ 2986
(e) None of these

45. 48 percent of Ist number is 60 percent of the second number. What is the respective ratio of the Ist number to the second number?
(a) 4 : 7 (b) 3 : 4
(c) 5 : 4
(d) Cannot be determined
(e) None of these

46. What will come in place of the question mark (?) in the following number series?
12, 16, 24, 36, 52 ?
(a) 80 (b) 76
(c) 72 (d) 82
(e) None of these

47. 7 21 49 91 147 (?)
(a) 246 (b) 236
(c) 217 (d) 237
(e) None of these

48. 620 412 308 256 230 (?)
(a) 217 (b) 227
(c) 207 (d) 234
(e) None of these

49. How many bags are required for filling 1568 kg of wheat if each bag is filled with 112 kg of wheat ?
(a) 19 (b) 24
(c) 14 (d) 29
(e) None of these

50. Sonali invests 15% of her monthly salary in insurance policies, she spends 55% of her monthly salary in shopping and on household expenses. She saves the remaining amount of ₹ 12,750. What is the Sonali's monthly income ?
(a) ₹ 42,500 (b) ₹ 38,800
(c) ₹ 40,000 (d) ₹ 35,500
(e) None of these