Directions— (Q. 1–25) What will come in place of question mark (?) in the following questions ?

1. $(5697 + 8923 + 4516) \div 46 = ?$
   - (A) 416
   - (B) 414
   - (C) 424
   - (D) 422
   - (E) None of these

2. $7 \times 77 \times 777 = ?$
   - (A) 418703
   - (B) 418603
   - (C) 418903
   - (D) 418803
   - (E) None of these

3. $130 \cdot 78 - 15 \cdot 67 + 88 \cdot 91 = ?$
   - (A) 202·02
   - (B) 204·02
   - (C) 206·02
   - (D) 208·02
   - (E) None of these

4. $(14563 + 16554 - 26783) \times ? = 47674$
   - (A) 12·5
   - (B) 11·5
   - (C) 11
   - (D) 13
   - (E) None of these

5. $0 \cdot 09 \times ? \times 4 \cdot 4 = 0 \cdot 5148$
   - (A) 0·76
   - (B) 1·45
   - (C) 1·6
   - (D) 0·96
   - (E) None of these

6. $1324 \times 4213 = ?$
   - (A) 5587102
   - (B) 5578120
   - (C) 5587012
   - (D) 5578012
   - (E) None of these

7. $\dfrac{12 \times 24 - 72}{(30 \times 45) \div 100} = ?$
   - (A) 13·5
   - (B) 14
   - (C) 16·5
   - (D) 18
   - (E) None of these

8. $7 \times 17 + 72 = ?$
   - (A) 191
   - (B) 189
   - (C) 193
   - (D) 187
   - (E) None of these

9. $(13)^3 = ?$
   - (A) 2343
   - (B) 2269
   - (C) 2197
   - (D) 2029
   - (E) None of these

10. $88 \cdot 88 + 555 \cdot 55 = ?$
    - (A) 643·34
    - (B) 644·43
    - (C) 644·34
    - (D) 643·43
    - (E) None of these

11. $1772 + 2394 + 5462 = ?$
    - (A) 9528
    - (B) 9628
    - (C) 9728
    - (D) 9828
    - (E) None of these

12. $9564 + 2873 = ? - 5958$
    - (A) 18395
    - (B) 17014
    - (C) 15522
    - (D) 12437
    - (E) None of these

13. $10571 \div \sqrt{?} = 341$
    - (A) 31
    - (B) 33
    - (C) 1089
    - (D) 961
    - (E) None of these

14. $13 \times ? = 1664 \div 16$
    - (A) 7
    - (B) 9
    - (C) 11
    - (D) 5
    - (E) None of these

15. 61% of 558 = ?
    - (A) 351·54
    - (B) 357·12
    - (C) 340·38
    - (D) 345·96
    - (E) None of these

16. $897 \div 23 \div 3 = ?$
    - (A) 13
    - (B) 15
    - (C) 39
    - (D) 45
    - (E) None of these

17. $18 \times 42 \div 14 + 9 = ?$
    - (A) 61
    - (B) 63
    - (C) 65
    - (D) 67
    - (E) None of these

18. $7543 - 619 - 259 = ?$
    - (A) 6566
    - (B) 6656
    - (C) 6665
    - (D) 5666
    - (E) None of these

19. $1427 + 1382 = (?)^2$
    - (A) 37
    - (B) 41
    - (C) 49
    - (D) 53
    - (E) 51

20. $31 \times 17 \times 2 = ?$
    - (A) 956
    - (B) 992
    - (C) 1024
    - (D) 1088
    - (E) None of these

21. $(14)^2 + (14)^2 = ?$
    - (A) $(14)^4$
    - (B) 1372
    - (C) 280
    - (D) $(28)^2$
    - (E) None of these

22. $1221 \div 37 + (8)^3 = ?$
    - (A) 515
    - (B) 525
    - (C) 535
    - (D) 545
    - (E) None of these

23. $\sqrt{?} + 19 = \sqrt{2116}$
    - (A) 27
    - (B) 361
    - (C) 729
    - (D) 46
    - (E) None of these

24. $\dfrac{111}{127} \times 1\dfrac{175}{333} = ?$
    - (A) $1\dfrac{1}{3}$
    - (B) $1\dfrac{2}{5}$
    - (C) $2\dfrac{1}{5}$
    - (D) $5\dfrac{1}{6}$
    - (E) None of these

25. $\dfrac{6}{7}$ of $\dfrac{8}{9}$ of $\dfrac{4}{5}$ of 735 = ?
    - (A) 147
    - (B) 448
    - (C) 336
    - (D) 271
    - (E) None of these

26. What is the **least** number to be added to 7654 to make it a perfect square ?
    - (A) 90
    - (B) 85
    - (C) 95
    - (D) 100
    - (E) None of these

27. What would be the compound interest obtained on an amount of ₹ 3,000 at the rate of 15 p.c.p.a. in 2 years ?
    - (A) ₹ 937·25
    - (B) ₹ 947·50
    - (C) ₹ 957·25
    - (D) ₹ 967·50
    - (E) None of these

28. A car covers a distance of 1408 km in 1320 minutes. What is the average speed of the car in km/hr ?
    - (A) 64 km/hr
    - (B) 66 km/hr
    - (C) 68 km/hr
    - (D) Cannot be determined
    - (E) None of these

29. What is 187 times 315 ?
    - (A) 58645
    - (B) 58275
    - (C) 58905
    - (D) 59145

30. What **approximate** value should come in place of the question mark (?) in the following question ?

$667 \div 36 \times (11)^2 + 112 = ?$

(A) 3000   (B) 2350
(C) 1900   (D) 1740
(E) 3100

31. If $(16)^3$ is added to the square of a number, the answer so obtained is 5617. What is the number ?

(A) 41   (B) 37
(C) 43   (D) 47
(E) None of these

32. What would be the simple interest obtained on an amount of ₹ 6,550 at the rate of 12 p.c.p.a. for 8 years ?

(A) ₹ 6,240   (B) ₹ 6,288
(C) ₹ 6,336   (D) ₹ 6,384
(E) None of these

33. At present the average age of a man and his son is 21 years. The ratio of their ages is 6 : 1 respectively. What is the man's age ?

(A) 34 years   (B) 38 years
(C) 42 years   (D) 46 years
(E) None of these

34. If an amount of ₹ 12,771 is distributed equally amongst 43 persons. How much amount would each person get ?

(A) ₹ 321   (B) ₹ 313
(C) ₹ 304   (D) ₹ 297
(E) None of these

35. Which of the following fractions is the highest ?

(A) $\dfrac{3}{5}$ (B) $\dfrac{5}{11}$

(C) $\dfrac{9}{11}$ (D) $\dfrac{7}{8}$

(E) $\dfrac{4}{7}$

36. 62% of a number is 1426. What is the number ?

(A) 2250   (B) 2300
(C) 2375   (D) 2425
(E) None of these

37. In an annual examination Ravish scores a total of 888 marks out of 1135. What is his **approximate** percentage in the annual examination ?

(A) 70   (B) 66
(C) 82   (D) 84
(E) 78

38. The present ages of Ritu and Nishi are 26 and 30 years respectively. After how many years would the ratio of their ages become 10 : 11 ?

(A) 14   (B) 12
(C) 16   (D) 18
(E) None of these

39. The difference between the two digits of a two digit number is 6, what is the sum of the two digits of the number ?

(A) 6
(B) 10
(C) 14
(D) Cannot be determined
(E) None of these

40. There are 676 employees in a company. Out of which 25% shifted to new branch of the company. How many such employees are there who got shifted ?

(A) 167   (B) 168
(C) 169   (D) 171
(E) None of these

41. Vihaan invests ₹ 7,854, which is 22% of his monthly income, in mutual funds. What is his monthly income ?

(A) ₹ 31,412   (B) ₹ 32,296
(C) ₹ 33,824   (D) ₹ 34,148
(E) None of these

42. The difference between 56% of a number and 41% of the same number is 165. What is 63% of that number ?

(A) 1100   (B) 693
(C) 407   (D) 866
(E) None of these

43. A, B and C divide an amount of ₹ 12,416 amongst themselves in the ratio of 4 : 5 : 7 respectively. What is the C's share in the amount ?

(A) ₹ 3,104   (B) ₹ 3,880
(C) ₹ 4,656   (D) ₹ 5,432
(E) None of these

44. If the cost of 15 kg of rice is ₹ 780, what is the cost of 112 kg of rice ?

(A) ₹ 5,824   (B) ₹ 5,720
(C) ₹ 5,616   (D) ₹ 5,512
(E) None of these

45. In an examination it is required to get 780 out of the aggregate marks to pass. A student gets 666 marks and is declared failed by 12% marks. What are the **maximum** aggregate marks a student can get ?

(A) 900
(B) 925
(C) 950
(D) Cannot be determined
(E) None of these

46. Prachi deposits an amount of ₹ 78,000 to obtain a simple interest at the rate of 13 p.c.p.a. for 3 years. What total amount will Prachi get at the end of 3 years ?

(A) ₹ 30,420   (B) ₹ 1,05,420
(C) ₹ 1,12,420   (D) ₹ 1,08,420
(E) None of these

47. The average of 5 consecutive numbers A, B, C, D and E is 102. What is the product of B and D ?

(A) 10302   (B) 10403
(C) 10504   (D) 10605
(E) None of these

48. Find the average of the following set of scores :

122, 178, 154, 167, 189

(A) 158   (B) 159
(C) 160   (D) 161
(E) 162

49. The total number of employees (both males and females together) in an organization is 1782. If the number of females in the organization is 990, then what is the respective ratio of the total number of males to the total number of females in the organization ?

(A) 4 : 5   (B) 10 : 11
(C) 23 : 25   (D) 58 : 65
(E) None of these

50. The cost of 5 watches and 7 calculators is ₹ 21,409. What is the cost of 10 watches and 14 calculators ?

(A) ₹ 38,968
(B) ₹ 36,728
(C) ₹ 42,818
(D) Cannot be determined
(E) None of these