SECTION 1 (Mental Maths Calculation)

1. $(36 \times 13) + (36 \times 52) =$ _____
(a) 2240   (b) 2340
(c) 2330   (d) 2320

2. $(85 \times 42) - (17 \times 85) =$ _____
(a) 2225   (b) 2135
(c) 2025   (d) 2125

3. $(13 \times 38) + (7 \times 8) + (19 \times 18) =$ _____
(a) 892   (b) 872
(c) 882   (d) 902

4. $(66 \times 4) + (82 \times 5) - (37 \times 6) =$ _____
(a) 462   (b) 452
(c) 472   (d) 432

5. $(82 \times 6) - (37 \times 6) + (14 \times 8) =$ _____
(a) 483   (b) 382
(c) 503   (d) 513

6. (25% of 168) + (50% of 298) = _____
(a) 171   (b) 181
(c) 191   (d) 201

7. (50% of 158) – (25% of 132) = _____
(a) 45   (b) 54
(c) 46   (d) 56

8. (50% of 162) + (25% of 160) – (20% of 180) = _____
(a) 75   (b) 85
(c) 83   (d) 95

9. (half of 140) + (one third of 150) = _____
(a) 100   (b) 110
(c) 120   (d) 130

10. (one third of 390) – (half of 146) = _____
(a) 47   (b) 57
(c) 67   (d) 46

11. square of 37 + square 15 = _____
(a) 1794   (b) 1694
(c) 1594   (d) 1494

12. square of 95 – square 25 = _____
(a) 8400   (b) 8500
(c) 8600   (d) 8700

13. square of 40 + square of 30 – square of 25 = _____
(a) 2165   (b) 1857
(c) 1785   (d) 1875

14. square of 19 – square root of 676 = _____
(a) 335   (b) 345
(c) 355   (d) 365

15. square of 29 + cube root of 512 = _____
(a) 849   (b) 859
(c) 869   (d) 879

16. square root of 169 + cube of 7 = _____
(a) 336   (b) 346
(c) 356   (d) 366

17. cube of 6 + square root 1296 =
(a) 222   (b) 232
(c) 242   (d) 252

18. Sum of all the divisor of 46 = _____
(a) 61   (b) 62
(c) 71   (d) 72

19. Sum of all the divisor of 40
(a) 89   (b) 90
(c) 91   (d) 92

20. Sum of all prime divisors of 2320
(a) 7   (b) 36
(c) 18   (d) 46

21. Select the greatest number from the given operations.
(a) 99×4 (b) $388 - 156$
(c) $96 + 146$ (d) 22×17

22. Select the smallest number from the given operations.
(a) 34×3 (b) $121 - 47$
(c) $111 \div 3$ (d) 6×13

23. If 345 is divided by 35, the remainder is _____
(a) 15   (b) 20
(c) 25   (d) 30

24. If 868 is divided by 34, the remainder is _____
(a) 16   (b) 18
(c) 20   (d) 22

25. If 1198 is divided by 24, the remainder is _____
(a) 20   (b) 21
(c) 22   (d) 23

26. If 1235 is divided by 23, the remainder is _____
(a) 15   (b) 16
(c) 17   (d) 18

27. $9124 \times 22 =$ _____

(a) 200718   (b) 200728

(c) 200818   (d) 200828

28. $1189 \times 47 =$ _____

(a) 55773   (b) 55783

(c) 55873   (d) 55883

29. $2.95 \times 1.4 =$ _____

(a) 4.03   (b) 4.04

(c) 4.13   (d) 4.14

30. $5.15 \times 3.6 =$ _____

(a) 17.54   (b) 17.64

(c) 18.54   (d) 18.64

31. H.C.F. of 30, 40, 84 is _____

(a) 3   (b) 2

(c) 12   (d) 8

32. L.C.M. of 35, 45 and 70 is _____

(a) 630   (b) 640

(c) 730   (d) 740

33. $6 - 4.003 =$ _____

(a) 1.987   (b) 1.997

(c) 1.897   (d) 2.997

34. $17.95 + 32.81 - 13.31 =$ _____

(a) 36.35   (b) 36.45

(c) 37.35   (d) 37.45

35. $3\dfrac{1}{3} + 4\dfrac{1}{4} = \boxed{}$

(a) $7\dfrac{5}{12}$ (b) $7\dfrac{7}{12}$

(c) $8\dfrac{5}{12}$ (d) $8\dfrac{7}{12}$

36. $\boxed{} - 2\dfrac{2}{3} = \dfrac{7}{8}$

(a) $2\dfrac{11}{24}$ (b) $2\dfrac{13}{24}$

(c) $3\dfrac{11}{24}$ (d) $3\dfrac{13}{24}$

37. $(1.49 \times 3.8) + (6 \times 1.49) =$ _____

(a) 14.0   (b) 14.602

(c) 14.620   (d) 14.009

38. Double of 4135 = _____

(a) 8170   (b) 8180

(c) 8270   (d) 8280

39. Half of 5078 = _____

(a) 2534   (b) 2539

(c) 2634   (d) 2639

40. The ratio of 50 min to 50 hour is _____

(a) 1:16   (b) 1:30

(c) 1:60   (d) 1:10

SECTION 2
(Mental Maths Concepts)

41. $120 \times 10 \div (6 \times 5) =$ _____

(a) 40   (b) 100

(c) 60   (d) 80

42. $84 - (41 - 117) =$ _____

(a) -8 (b) 8

(c) -160 (d) 160

43. $-3 + \boxed{} = -11$

(a) -8 (b) 8

(c) -14 (d) 14

44. $(213 - 338) \div 25 =$ _____

(a) -5 (b) -6

(c) -7 (d) 5

45. $(16) \times (3) + (3) \times (126) \div (-9)$

(a) -5 (b) 5

(c) -6 (d) 6

46. $\dfrac{265}{212} = \boxed{}$

(a) $\dfrac{4}{5}$ (b) $\dfrac{6}{5}$

(c) $\dfrac{5}{4}$ (d) $\dfrac{6}{7}$

47. Find 7th term in the given series.

26, 37, 50, 65, ___, ___, ___

(a) 170   (b) 197

(c) 145   (d) 122

48. $\dfrac{6}{7} \div \dfrac{3}{25} \times \dfrac{9}{15} = \boxed{}$

(a) $\dfrac{7}{30}$ (b) $\dfrac{30}{7}$

(c) $\dfrac{9}{16}$ (d) $\dfrac{16}{9}$

49. $8 \times 37 + 8 \times 13 =$ _____

(a) 350   (b) 450

(c) 400   (d) 500

50. $135 \times 10 + 135 \times 90 =$ _____

(a) 1150   (b) 12500

(c) 13500   (d) 14500

51. $10.05 \div 1.5 =$ _____

(a) 6.5   (b) 6.7

(c) 6.9   (d) 6.4

52. $737 \div 1.1 =$ _____

(a) 660   (b) 690

(c) 630   (d) 670

53. 26:52 = 4: _____

(a) 9   (b) 8

(c) 7   (d) 14

54. If 6 bags of Soyabeen seeds cost ₹ 3900. Find the cost of 5 such bags.

(a) 3150   (b) 3200

(c) 3250   (d) 3300

55. The perimeter of triangle is 70 cm, if one of its side is 14 cm. If the other two side are equal find their lengths.

(a) 25 cm   (b) 20 cm

(c) 30 cm   (d) 28 cm

56. $\dfrac{4y}{3} = \dfrac{8}{15}$ then y = ☐

(a) 0.8   (b) 0.4

(c) 0.9   (d) 0.5

57. The ratio of 1 meter : 80 cm is _____

(a) 5:4   (b) 5:3

(c) 3:5   (d) 3:4

58. The ratio of ₹ 4:150 paise = _____

(a) 8:3   (b) 3:8

(c) 5:3   (d) 3:5

59. 4t = 7t – 54, t = _____

(a) 12   (b) 13

(c) 14   (d) 18

60. Find the number whose 6% is 30.

(a) 50   (b) 500

(c) 1500   (d) 400

SECTION 3 (Mental Maths Challenge)

61. Yash purchased following items from the supermarket 5 kg atta at ₹16 per kg; 4 kg dal moong at ₹ 32.50 per kg, 1 kg dal Udad at ₹ 47.50 per kg and 1 kg sugar at ₹ 13.50 per kg. How much did he pay to the cashier, if the cashier gave him ₹ 17 back?

(a) ₹ 278   (b) ₹ 288   (c) ₹ 298   (d) ₹ 300

62. Find the smallest number which on being divided by 10, 30, 50 and 75 leaves 8 as remainder.

(a) 138   (b) 148   (c) 158   (d) 168

63. Find the radius of a circle whose circumference is 44 cm.

(a) 6.9 cm   (b) 7.0 cm   (c) 7.1 cm   (d) 7.2 cm

64. A car travels 515.2 km in 8 hours. Find the distance covered in 5 hours.

(a) 64.40 km   (b) 115.92 km   (c) 322 km   (d) 1043.28 km

65. In a library there were 3000 books. Out of this 675 books were discarded what percentage of the books was discarded?

(a) 22.5%   (b) 23%   (c) 23.5%   (d) 24%

66. Which of the following number is exactly divisible by 23.

(a) 151 (b) 161 (c) 171 (d) 181

67. A square & a rectangular plot of land have same perimeter. If the square is of side 50 cm & rectangle is of length 80 cm, then the area of the rectangle is

(a) 160 cm² (b) 180 cm² (c) 1600 cm² (d) 1800 cm²

68. Smit borrows a sum of ₹ 1200 from Sudha at the rate of 3% p.a. After 2 year 3 months, how much simple interest will he have to pay?

(a) ₹ 91 (b) ₹ 52 (c) ₹ 62 (d) ₹ 81

69. There are 3600 books in a library. If 13.5% new books were purchased and 300 old books were discarded, how many books were left in the library?

(a) 3786 (b) 3796 (c) 3886 (d) 3896

70. In an office 12 clerks get a salary of ₹ 3500 each & 3 officers get a salary of ₹ 6500 each. Find the average salary of the employee in the office.

(a) ₹ 4000 (b) ₹ 4100 (c) ₹ 4200 (d) ₹ 4300

71. If x= 2, y = 4, z = 6 and a = 8, find the value of

$$\frac{xy}{z} - \frac{xy}{a}$$

(a) $\frac{1}{3}$ (b) $\frac{2}{3}$ (c) $\frac{1}{7}$ (d) $\frac{2}{7}$

72. Which of the following expression is correct?

(a) $5 + 5 \times 5 \times 5 = 50$ (b) $5 \div 5 + 5 \times 5 = 50$

(c) $5 \times 5 \div 5 + 5 = 50$ (d) $5 \times 5 + 5 \times 5 = 50$

73. Ram, Ravina, Suresh and Srushti are respectively 12 yrs 7 months, 13 years 3 months, 13 year 9 months and 12 years 9 months old. Find their average age.

(a) 12 yrs 6 months   (b) 12 yrs 11 months

(c) 13 yrs 1 months   (d) 13 yrs 3 months

74. If 95.5% of the students are present in the school & number of absent students is 54, find the total number of students in the school.

(a) 1050   (b) 1200   (c) 1680   (d) 4053

75. The cost of a wall clock is ₹ 280. Find the selling price with the profit of 15%.

(a) ₹ 222   (b) ₹ 232   (c) ₹ 322   (d) ₹ 332