

SECTION 1 (Mental Maths Calculation)

1. $(29 \times 15) + (42 \times 51) =$ _____
 (a) 2477 (b) 2577
 (c) 2387 (d) 2587
2. $(97 \times 34) - (17 \times 83) =$ _____
 (a) 1877 (b) 1787
 (c) 1887 (d) 1777
3. $(13 \times 42) + (7 \times 8) + (21 \times 14) =$

 (a) 896 (b) 876
 (c) 886 (d) 796
4. $(72 \times 5) + (83 \times 3) - (42 \times 4) =$

 (a) 441 (b) 331
 (c) 341 (d) 301
5. $(83 \times 7) - (42 \times 4) + (12 \times 8) =$

 (a) 499 (b) 509
 (c) 519 (d) 489
6. $(25\% \text{ of } 240) + (50\% \text{ of } 812) =$

 (a) 446 (b) 456
 (c) 566 (d) 466
7. $(50\% \text{ of } 830) - (25\% \text{ of } 484) =$

 (a) 526 (b) 516
 (c) 294 (d) 394
8. $(50\% \text{ of } 184) + (25\% \text{ of } 712) -$
 $(20\% \text{ of } 190) =$ _____
 (a) 318 (b) 298
 (c) 288 (d) 232
9. $(\text{half of } 234) + (\text{one third}$
 $\text{of } 534) =$ _____
 (a) 285 (b) 275
 (c) 295 (d) 305
10. $(\text{one third of } 840) - (\text{half of}$
 $298) =$ _____
 (a) 121 (b) 141
 (c) 131 (d) 231
11. square of 82 + square 44 =

 (a) 8660 (b) 8550
 (c) 8560 (d) 9660
12. square of 62 – square 41 =

 (a) 2053 (b) 2163
 (c) 2063 (d) 2153
13. square of 48 + square of 31
 – square of 42 = _____
 (a) 1481 (b) 1501
 (c) 1511 (d) 1491



- 14.** square of 19 – square root of 1296 = _____
(a) 235 (b) 225
(c) 325 (d) 315
- 15.** square of 41 + cube root of 6859 = _____
(a) 1562 (b) 1662
(c) 1462 (d) 1552
- 16.** square root of 361 + cube of 7 = _____
(a) 362 (b) 342
(c) 352 (d) 372
- 17.** cube of 7 + square root 1444 = _____
(a) 381 (b) 371
(c) 343 (d) 362
- 18.** Sum of all the divisor of 135 = _____
(a) 192 (b) 216
(c) 104 (d) 240
- 19.** Sum of all the divisor of 42
(a) 96 (b) 83
(c) 79 (d) 53
- 20.** Sum of all prime divisors of 3225
(a) 8 (b) 51
(c) 9 (d) 52
- 21.** Select the greatest number from the given operations.
(a) 94×4 (b) $423 - 159$
(c) $89 + 133$ (d) 24×17
- 22.** Select the smallest number from the given operations.
(a) 38×4 (b) $245 - 78$
(c) $192 \div 3$ (d) 6×14
- 23.** If 431 is divided by 24, the remainder is _____
(a) 23 (b) 21
(c) 22 (d) 13
- 24.** If 894 is divided by 14, the remainder is _____
(a) 13 (b) 10
(c) 11 (d) 12
- 25.** If 1342 is divided by 23, the remainder is _____
(a) 8 (b) 9
(c) 7 (d) 6
- 26.** If 2154 is divided by 32, the remainder is _____
(a) 9 (b) 11
(c) 10 (d) 8



- 27.** $8425 \times 31 =$ _____
 (a) 261155 (b) 261175
 (c) 260175 (d) 261075
- 28.** $1128 \times 43 =$ _____
 (a) 48474 (b) 48504
 (c) 48514 (d) 47494
- 29.** $4.91 \times 1.7 =$ _____
 (a) 8.457 (b) 8.447
 (c) 8.347 (d) 8.357
- 30.** $4.28 \times 3.2 =$ _____
 (a) 13.696 (b) 13.586
 (c) 13.596 (d) 13.796
- 31.** H.C.F. of 48, 80, 112 is _____
 (a) 24 (b) 6
 (c) 32 (d) 16
- 32.** L.C.M. of 21, 32 and 56 is _____
 (a) 1344 (b) 672
 (c) 168 (d) 224
- 33.** $5 - 3.148 =$ _____
 (a) 1.752 (b) 1.642
 (c) 1.852 (d) 1.832
- 34.** $14.96 + 24.81 - 14.43 =$ _____
 (a) 24.24 (b) 23.34
 (c) 25.34 (d) 25.24
- 35.** $4\frac{3}{5} + 7\frac{1}{3} =$
 (a) $\frac{179}{15}$ (b) $\frac{59}{5}$
 (c) 12 (d) $\frac{176}{15}$
- 36.** $- 2\frac{1}{4} = \frac{5}{8}$
 (a) $\frac{15}{8}$ (b) $\frac{23}{8}$
 (c) $\frac{13}{8}$ (d) 2
- 37.** $(1.45 \times 3.2) + (6.5 \times 2.14) =$ _____
 (a) 18.55 (b) 17.55
 (c) 18.45 (d) 17.35
- 38.** Double of 4132 = _____
 (a) 8254 (b) 8164
 (c) 8154 (d) 8264
- 39.** Half of 4328 = _____
 (a) 2164 (b) 2054
 (c) 2154 (d) 2064
- 40.** The ratio of 35 min to 50 hour is _____
 (a) 1:100 (b) 7:10
 (c) 7:600 (d) 7:60



SECTION 2
(Mental Maths Concepts)

41. $182 \times 6 \div (7 \times 4) = \underline{\hspace{2cm}}$

- (a) 37 (b) 29
(c) 39 (d) 19

42. $82 - (29 - 95) = \underline{\hspace{2cm}}$

- (a) 138 (b) 248
(c) 148 (d) 128

43. $21 - \square = -8$

- (a) 13 (b) 29
(c) 24 (d) 17

44. $(435 - 979) \div 272 = \underline{\hspace{2cm}}$

- (a) -2 (b) 2
(c) -3 (d) 4

45. $(16) \times (4) + (-5) \times (3) \div (-3)$

- (a) 59 (b) 69
(c) 62 (d) 64

46. $\frac{318}{724} = \square$

- (a) $\frac{159}{342}$ (b) $\frac{159}{362}$
(c) $\frac{78}{241}$ (d) $\frac{149}{362}$

47. Find 7th term in the given series.

42, 50, 58, , ,

- (a) 82 (b) 98
(c) 90 (d) 74

48. $\frac{3}{5} \div \frac{6}{25} \times \frac{7}{15} = \square$

- (a) $\frac{7}{3}$ (b) $\frac{7}{12}$
(c) $\frac{5}{6}$ (d) $\frac{7}{6}$

49. $8 \times 42 + 7 \times 13 = \underline{\hspace{2cm}}$

- (a) 427 (b) 407
(c) 417 (d) 397

50. $135 \times 11 + 124 \times 82 = \underline{\hspace{2cm}}$

- (a) 11643 (b) 1160
(c) 11553 (d) 11653

51. $12.25 \div 2.5 = \underline{\hspace{2cm}}$

- (a) 49 (b) 0.49
(c) 0.049 (d) 4.9

52. $832 \div 1.6 = \underline{\hspace{2cm}}$

- (a) 510 (b) 500
(c) 520 (d) 530

53. $35:105 = 1: \underline{\hspace{2cm}}$
- (a) 5 (b) 3
(c) 4 (d) 2
54. If 6 bags of Soyabean seeds cost ₹ 2400. Find the cost of 9 such bags.
- (a) 3200 (b) 2800
(c) 3600 (d) 3800
55. The perimeter of triangle is 52 cm, if one of its side is 24 cm. If the other two side are equal find their lengths.
- (a) 14 cm (b) 32 cm
(c) 28 cm (d) 12 cm
56. $\frac{3y}{5} = \frac{9}{25}$ then $y = \square$
- (a) 0.6 (b) 0.3
(c) 0.8 (d) 0.5
57. The ratio of 2 meter : 180 cm is _____
- (a) 1:9 (b) 10:9
(c) 1:90 (d) 5:4
58. The ratio of ₹ 2:75 paise = _____
- (a) 3:8 (b) 5:3
(c) 8:3 (d) 3:5
59. $4t = 9t - 40$, $t = \underline{\hspace{2cm}}$
- (a) 8 (b) 4
(c) 7 (d) 6
60. Find the number whose 6% is 252.
- (a) 4000 (b) 4100
(c) 4210 (d) 4200

SECTION 3 (Mental Maths Challenge)

- 61.** Sanjay, Ajay, Vijay and Usha are respectively 13 yrs 8 months, 14 years 3 months, 13 year 6 months and 12 years 11 months old. Find their average age.
- (a) 12 yrs 7 months (b) 13 yrs 5 month
(c) 13 yrs 9 months (d) 13 yrs 6 months
- 62.** The H.C.F and L.C.M. of two number are 45 and 90 respectively. If one of the number is 45, find the other one.
- (a) 180 (b) 90 (c) 45 (d) 15
- 63.** If $x = 3$, $y = 4$, $z = 7$ and $a = 3$, find the value of
- $$\frac{xy}{a} - \frac{xy}{z}$$
- (a) $\frac{16}{7}$ (b) $\frac{5}{3}$ (c) $\frac{10}{7}$ (d) $\frac{29}{21}$
- 64.** In a library there were 72 books. Out of this 18 books were discarded. What percentage of the books was discarded?
- (a) 10 (b) 15 (c) 25 (d) 20
- 65.** Simplify: $- 11.2 \div 4 - 0.25 \times 8 + 4.7$
- (a) 1.24 (b) 2.5 (c) 5.5 (d) 2.24

- 66.** A student has to secure 30% of the maximum marks to pass. He secures 350 marks and fails by 70 marks. Find the maximum marks.
- (a) 1500 (b) 1300 (c) 1200 (d) 1400
- 67.** In an office 7 clerks get a salary of ₹ 3100 each & 3 officers get a salary of ₹ 4200 each. Find the average salary of the employee in the office.
- (a) ₹ 3300 (b) ₹ 3430 (c) ₹ 3440 (d) ₹ 3230
- 68.** Shyam repaid ₹ 7200 which he had borrowed at 10.5% per annum . After 8 months, how much simple interest on the sum of ₹ 7200 did he pay ?
- (a) ₹ 328 (b) ₹ 188 (c) ₹ 504 (d) ₹ 488
- 69.** Find the difference of the greatest and least numbers of five digits by formed by using 2, 3, 5, 8 and 9 once only.
- (a) 82359 (b) 65473 (c) 74943 (d) 65934
- 70.** What is the 7th term of the sequence shown?
3200, 800, 200,
- (a) $\frac{25}{64}$ (b) $\frac{25}{2}$ (c) $\frac{25}{8}$ (d) $\frac{25}{32}$

71. A square & a rectangular plot of land have same perimeter. If the square is of side 70 cm & rectangle is of length 90 cm, then the area of the rectangle is
(a) 4500 cm² (b) 2500 cm² (c) 3600 cm² (d) 2000 cm²
72. A boy is 24 yrs younger than his father. Six years ago, the boy's age was one-third of the age of his father, then present age of boy is _____
(a) 17 yrs (b) 18 yrs (c) 36 yrs (d) 20 yrs
73. In a two digit number, the unit place digit is 5. If the digits are interchanged, the new number formed is $\frac{19}{25}$ times the old number. What is the number?
(a) 55 (b) 75 (c) 65 (d) 95
74. The speed of car is 48 km per hour. What is the distance travelled in $\frac{7}{2}$ hours ?
(a) 148 km (b) 158 km (c) 168 km (d) 178 km
75. If two complementary angles are in the ratio 1:4. Find the measure of smaller one.
(a) 18° (b) 72° (c) 90° (d) 144°