

**SECTION 1 (Mental Maths Calculation)**

1.  $(43 \times 15) + (35 \times 17) =$  \_\_\_\_\_  
 (a) 1160 (b) 1340  
 (c) 1240 (d) 1230
2.  $(63 \times 72) - (17 \times 63) =$  \_\_\_\_\_  
 (a) 3405 (b) 3575  
 (c) 3565 (d) 3465
3.  $(14 \times 7) + (5 \times 6) + (17 \times 19) =$   
 \_\_\_\_\_  
 (a) 441 (b) 651  
 (c) 521 (d) 451
4.  $(62 \times 7) + (7 \times 5) - (36 \times 9) =$   
 \_\_\_\_\_  
 (a) 497 (b) 145  
 (c) 417 (d) 147
5.  $(79 \times 8) - (26 \times 15) + (14 \times 9) =$   
 \_\_\_\_\_  
 (a) 358 (b) 328  
 (c) 368 (d) 378
6.  $(25\% \text{ of } 156) + (50\% \text{ of } 322) =$   
 \_\_\_\_\_  
 (a) 300 (b) 200  
 (c) 210 (d) 190
7.  $(50\% \text{ of } 768) - (25\% \text{ of } 260) =$   
 \_\_\_\_\_  
 (a) 219 (b) 319  
 (c) 349 (d) 279
8.  $(50\% \text{ of } 74) + (25\% \text{ of } 384) -$   
 $(20\% \text{ of } 425) =$  \_\_\_\_\_  
 (a) 74 (b) 48  
 (c) 58 (d) 84
9.  $(\text{half of } 720) + (\text{one third}$   
 $\text{of } 150) =$  \_\_\_\_\_  
 (a) 420 (b) 400  
 (c) 410 (d) 390
10.  $(\text{one third of } 720) - (\text{half of}$   
 $138) =$  \_\_\_\_\_  
 (a) 111 (b) 161  
 (c) 151 (d) 171
11. square of 16 + square 28 =  
 \_\_\_\_\_  
 (a) 1240 (b) 1340  
 (c) 1040 (d) 1100
12. square of 39 – square 29 =  
 \_\_\_\_\_  
 (a) 780 (b) 790  
 (c) 690 (d) 680
13. square of 40 + square of 13  
 – square of 27 = \_\_\_\_\_  
 (a) 1140 (b) 1540  
 (c) 1040 (d) 940

- 14.** square of 24 – square root of 441 = \_\_\_\_\_  
(a) 555 (b) 545  
(c) 565 (d) 535
- 15.** square of 79 + cube root of 6859 = \_\_\_\_\_  
(a) 6360 (b) 6350  
(c) 6260 (d) 6460
- 16.** square root of 169 + cube of 9 = \_\_\_\_\_  
(a) 878 (b) 742  
(c) 828 (d) 842
- 17.** cube of 6 + square root 3136 = \_\_\_\_\_  
(a) 192 (b) 292  
(c) 272 (d) 172
- 18.** Sum of all the divisor of 90 = \_\_\_\_\_  
(a) 224 (b) 324  
(c) 254 (d) 234
- 19.** Sum of all the divisor of 36  
(a) 61 (b) 71  
(c) 81 (d) 91
- 20.** Sum of all prime divisors of 4620  
(a) 18 (b) 38  
(c) 48 (d) 28
- 21.** Select the greatest number from the given operations.  
(a)  $97 \times 4$  (b)  $456 - 68$   
(c)  $256 + 131$  (d)  $24 \times 13$
- 22.** Select the smallest number from the given operations.  
(a)  $35 \times 3$  (b)  $131 - 30$   
(c)  $218 \div 2$  (d)  $17 \times 6$
- 23.** If 413 is divided by 76, the remainder is \_\_\_\_\_  
(a) 34 (b) 33  
(c) 26 (d) 27
- 24.** If 878 is divided by 14, the remainder is \_\_\_\_\_  
(a) 10 (b) 8  
(c) 12 (d) 7
- 25.** If 1277 is divided by 29, the remainder is \_\_\_\_\_  
(a) 5 (b) 11  
(c) 1 (d) 15
- 26.** If 1355 is divided by 23, the remainder is \_\_\_\_\_  
(a) 7 (b) 21  
(c) 17 (d) 11

- 27.**  $8721 \times 31 =$  \_\_\_\_\_  
 (a) 264551 (b) 221351  
 (c) 270351 (d) 260351
- 28.**  $6270 \times 39 =$  \_\_\_\_\_  
 (a) 232330 (b) 244530  
 (c) 255430 (d) 248630
- 29.**  $4.77 \times 2.5 =$  \_\_\_\_\_  
 (a) 10.925 (b) 11.925  
 (c) 10.825 (d) 11.825
- 30.**  $7.12 \times 3.7 =$  \_\_\_\_\_  
 (a) 28.344 (b) 26.544  
 (c) 26.344 (d) 28.544
- 31.** H.C.F. of 12, 36, 96 is \_\_\_\_\_  
 (a) 8 (b) 9  
 (c) 12 (d) 6
- 32.** L.C.M. of 25, 36 and 30 is \_\_\_\_\_  
 (a) 900 (b) 800  
 (c) 840 (d) 600
- 33.**  $5 - 2.109 =$  \_\_\_\_\_  
 (a) 3.109 (b) 2.991  
 (c) 3.891 (d) 2.891
- 34.**  $4\frac{1}{3} + 7\frac{2}{5} - 2\frac{1}{2} =$  \_\_\_\_\_  
 (a)  $8\frac{7}{30}$  (b)  $8\frac{5}{30}$   
 (c)  $9\frac{7}{30}$  (d)  $9\frac{5}{30}$
- 35.**  $17.98 + 36.72 =$    
 (a) 52.70 (b) 54.70  
 (c) 55.70 (d) 57.70
- 36.**   $- 2\frac{2}{6} = 7\frac{1}{3}$   
 (a) 5 (b) 8  
 (c)  $9\frac{2}{3}$  (d)  $9\frac{1}{3}$
- 37.**  $(2.31 \times 1.8) + (8.3 \times 3.12) =$  \_\_\_\_\_  
 (a) 31.054 (b) 30.054  
 (c) 30.045 (d) 30.504
- 38.** Double of 2652 = \_\_\_\_\_  
 (a) 5304 (b) 5034  
 (c) 5403 (d) 5043
- 39.** Half of 7356 = \_\_\_\_\_  
 (a) 3768 (b) 3876  
 (c) 3687 (d) 3678
- 40.** The ratio of 90 min to 14 hour is \_\_\_\_\_  
 (a) 3:28 (b) 9:14  
 (c) 3:14 (d) 9:28

**SECTION 2**  
**(Mental Maths Concepts)**

- 41.**  $185 \times 45 \div (3 \times 25) =$  \_\_\_\_\_  
 (a) 111 (b) 211  
 (c) 91 (d) 131
- 42.**  $84 - (39 - 103) =$  \_\_\_\_\_  
 (a) 118 (b) 148  
 (c) 138 (d) 128
- 43.**  $4 - \square = -15$   
 (a) 11 (b) 19  
 (c) -19 (d) -11
- 44.**  $(216 - 354) \div 6 =$  \_\_\_\_\_  
 (a) 13 (b) 23  
 (c) -23 (d) -13
- 45.**  $(16) \times (3) + (-7) \times (4) \div (-4)$   
 (a) 45 (b) 41  
 (c) 55 (d) 64
- 46.**  $\frac{252}{180} = \square$   
 (a)  $\frac{6}{5}$  (b)  $\frac{7}{5}$   
 (c)  $\frac{11}{9}$  (d)  $\frac{4}{3}$
- 47.** Find 7th term in the given series.  
 26, 33, 40, \_\_\_\_, \_\_\_\_, \_\_\_\_  
 (a) 63 (b) 61  
 (c) 75 (d) 68
- 48.**  $\frac{3}{4} \div \frac{6}{25} \times \frac{16}{18} = \square$   
 (a)  $\frac{27}{9}$  (b)  $\frac{23}{9}$   
 (c)  $\frac{25}{9}$  (d)  $\frac{21}{9}$
- 49.**  $7 \times 42 + 42 \times 6 =$  \_\_\_\_\_  
 (a) 446 (b) 546  
 (c) 456 (d) 556
- 50.**  $143 \times 5 + 143 \times 15 =$  \_\_\_\_\_  
 (a) 3860 (b) 4015  
 (c) 2860 (d) 5015
- 51.**  $9.6 \div 1.6 =$  \_\_\_\_\_  
 (a) 6.4 (b) 6.0  
 (c) 5.4 (d) 7.0
- 52.**  $646 \div 1.7 =$  \_\_\_\_\_  
 (a) 250 (b) 380  
 (c) 280 (d) 350

53.  $39:78 = 34: \underline{\hspace{2cm}}$
- (a) 66 (b) 58  
(c) 68 (d) 56
54. If 6 bags of Soyabean seeds cost ₹ 4500. Find the cost of 7 such bags.
- (a) 5050 (b) 5250  
(c) 4950 (d) 5450
55. The perimeter of triangle is 56 cm, if one of its side is 18 cm. If the other two side are equal find their lengths.
- (a) 18 cm (b) 12 cm  
(c) 24 cm (d) 19 cm
56.  $\frac{5y}{6} = \frac{25}{12}$  then  $y = \square$
- (a) 1.8 (b) 0.6  
(c) 2.5 (d) 1.2
57. The ratio of 2 meter : 80 cm is \_\_\_\_\_
- (a) 5:2 (b) 2:5  
(c) 3:5 (d) 5:3
58. The ratio of ₹ 3:35 paise = \_\_\_\_\_
- (a) 7:60 (b) 30:7  
(c) 60:7 (d) 7:30
59.  $4t = 7t - 54$ ,  $t = \underline{\hspace{2cm}}$
- (a) -18 (b) 5  
(c) -5 (d) 18
60. Find the number whose 6% is 18.
- (a) 400 (b) 300  
(c) 600 (d) 200

**SECTION 3 (Mental Maths Challenge)**

- 61.** Veer purchased following items from the supermarket 2 kg atta at ₹ 10 per kg; 5 kg dal moong at ₹ 14.50 per kg, 3 kg dal Udad at ₹ 16.50 per kg and 1 kg sugar at ₹ 17.50 per kg. How much did he pay to the cashier, if the cashier gave him ₹ 59.5 back?  
(a) ₹ 218                      (b) ₹ 219                      (c) ₹ 220                      (d) ₹ 221
- 62.** Find the smallest number which on being divided by 40, 60, 80 and 90 leaves 21 as remainder.  
(a) 791                      (b) 741                      (c) 771                      (d) 761
- 63.** Find the radius of a circle whose circumference is 26.4 cm.  
(a) 4.2 cm                      (b) 2.1 cm                      (c) 8.4 cm                      (d) 16.8 cm
- 64.** A car travels 568.2 km in 9 hours. Find the distance covered in 6 hours.  
(a) 369.8 km                      (b) 368.8 km                      (c) 378.8 km                      (d) 379.8 km
- 65.** In a library there were 6000 books. Out of this 120 books were discarded what percentage of the books was discarded?  
(a) 2%                      (b) 4%                      (c) 6%                      (d) 8%

66. Sujal bought an old motor cycle for ₹20000 and spent ₹ 5000 for its repairs. For how much shall be sale it to earn profit of 20%?  
(a) ₹ 28500                      (b) ₹ 29000                      (c) ₹ 29500                      (d) ₹ 30000
67. To make 77 dresses 462 m of cloth was used. To make 88 dresses how much of the cloth will be required?  
(a) 432 m                      (b) 528 m                      (c) 637 m                      (d) 632 m
68. In an office 20 clerks get a salary of ₹ 2400 each & 5 officers get a salary of ₹ 7500 each. Find the average salary of the employee in the office.  
(a) ₹ 3300                      (b) ₹ 3325                      (c) ₹ 3420                      (d) ₹ 3440
69. In a hostel the consumption of wheat by 200 students in 10 month is 1500 kg. Find the wheat required for 80 student in the same period.  
(a) 600 kg                      (b) 650 kg                      (c) 700 kg                      (d) 750 kg
70. The ratio of income to expenditure of Mr.Rajesh is 5 :2. Find his saving if his income is ₹ 7800.  
(a) ₹ 4300                      (b) ₹ 4420                      (c) ₹ 4570                      (d) ₹ 4680

71. Shlok, Veera, Smith and Swara are respectively 13 yrs 4 months, 12 years 4 months, 9 years 9 months and 7 years 7 months old. Find their average age.

- (a) 9 yrs 6 months (b) 11 yrs 4 months  
(c) 10 yrs 9 months (d) 11 yrs 6 months

72. If  $x = 5$ ,  $y = 1$ ,  $z = 3$  and  $a = 9$ , find the value of

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

- (a)  $\frac{8}{9}$  (b)  $\frac{10}{9}$  (c)  $\frac{4}{3}$  (d)  $\frac{5}{3}$

73. A square & a rectangular plot of land have same perimeter. If the square is of side 6 cm & rectangle is of length 8 cm, then the area of the rectangle is

- (a)  $32 \text{ cm}^2$  (b)  $24 \text{ cm}^2$  (c)  $48 \text{ cm}^2$  (d)  $16 \text{ cm}^2$

74. The square plot has a side 82 m long. Find the cost of levelling if at ₹ 5.50 per sq.metre.

- (a) ₹ 36042 (b) ₹ 37762 (c) ₹ 36982 (d) ₹ 37662

75. Simplify :  $7\frac{1}{2} \div \frac{45}{8} + \frac{16}{27} \times \frac{9}{4} - \frac{7}{9} =$  \_\_\_\_\_

- (a)  $1\frac{2}{3}$  (b)  $1\frac{7}{9}$  (c)  $1\frac{8}{9}$  (d) 2

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