



INSTITUTE OF MATHEMATICS EDUCATION

MATHS APTITUDE TEST – 2025 (Primary Level)

Std. : V and VI
Time : 2 Hours

Question Paper

Date : 26.07.2025
Total Marks : 100

Instructions : 1) Use separate answer sheet to mark answers. 2) First read question carefully, get the answer and darken the circle of respective correct alternative on answer sheet. 3) **No change is allowed, so think twice and then darken the appropriate circle.** 4) Note that half circle darkened or more than one circle darkened, cross or tick on the circle, will not be given marks. 5) If questions are not attempted, marks will not be given. 6) **You can use separate paper for rough work.**

Q.1: How many zeros are there in 10 billion?
A) 8 B) 10 C) 9 D) 6

Q.2: $1002001 \div 11 = ?$
A) 91910 B) 90190 C) 90911 D) 91091

Q.3: Find 30th odd number after 30.
A) 89 B) 91 C) 93 D) 87

Q.4: Which of the following numbers is divisible by 24?
A) 3612 B) 1818 C) 1872 D) 4604

Q.5: Find sum of GCD and LCM of 4, 8, 22
A) 80 B) 76 C) 90 D) 68

Q.6: Which of the following is the smallest fraction?
A) $\frac{46}{529}$ B) $\frac{58}{841}$ C) $\frac{34}{289}$ D) $\frac{38}{361}$

Q.7: $0.7 \times 0.49 \div 0.343 = ?$
A) $\frac{7}{10}$ B) $\frac{10}{7}$ C) $\frac{1}{7}$ D) 1

Q.8: $2875 \text{ m} + 32500 \text{ cm} + 800000 \text{ mm} = \underline{\hspace{1cm}} \text{ km}$
A) 4 B) 3 C) 3.75 D) 3.5

Q.9: Express 1650 in Roman Numerals
A) MCML B) MDCL C) MMDL D) MCCL

Q.10: $4\text{hrs } 20\text{min} - 3\text{hrs } 50\text{min} = \underline{\hspace{1cm}} \text{ seconds}$
A) 1800 B) 1600 C) 1200 D) 800

Q.11: Put correct sign (<, >, =) in the box
 $1001 \div 11 \quad \square \quad 13 \times 7$
A) < B) > C) = D) Can't Say

Q.12: If 3rd September is Saturday, then the day on 3rd November is _____ day.
A) Tuesday B) Friday
C) Wednesday D) Thursday

Q.13: $(1001 \div 11 - 13) + 2 = ?$
A) 76 B) 80 C) 92 D) 94

Q.14: If cost of 18 purses is ₹ 4500, then what is the cost of 100 such purses in Rupees?
A) 20000 B) 15000 C) 12000 D) 25000

Q.15: Area of a square garden is 400 sq. m. Trees are planted along the border of garden with distance of 5m between them. How many trees are planted?
A) 14 B) 12 C) 16 D) 10

Q.16: If $5x + 40 = 100$ and $96 - 3y = 60$, then $x - y = ?$
A) 6 B) 3 C) 2 D) 0

Q.17: $\frac{111}{296} = \underline{\hspace{1cm}} \% ?$
A) 33% B) 37.5% C) 33.5% D) 37%

Q.18: In the number 62507 if the digit 0 is removed, by how much the place value of 6 changes?
A) 45000 B) 60000 C) 64000 D) 54,000

Q.19: How many natural numbers less than 100 are completely divisible by 3 and 5 both?
A) 6 B) 5 C) 8 D) 4

Q.20: How many pairs of co-prime numbers can be formed from given numbers? (Each pair contains two numbers). 30, 31, 32, 33, 34, 35
A) 5 B) 7 C) 10 D) 6

Q.21: If $4xy6$ is divisible by 11, then $y - x = ?$
A) 0 B) 2 C) 3 D) 4

Q.22: How many pairs of positive integers are there whose LCM is 18?
(A pair contains two distinct numbers).
A) 3 B) 2 C) 7 D) 1

Q.23: $\frac{A}{18} + \frac{A}{18} + \frac{A}{18} = \frac{2}{3}$, then $A = ?$
A) 4 B) 6 C) 12 D) 8

Q.24: Find the difference in place values of underlined digits in the number $3\underline{5}6\underline{2}1$
A) 580 B) 5890 C) 600 D) 4980

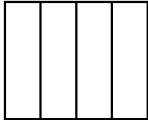
Q.25: 3 kiloliter + 25 milliliter = _____ liter?
A) 3000.025 B) 300.25
C) 3000.25 D) 300.025

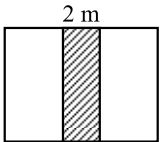
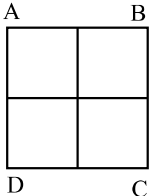
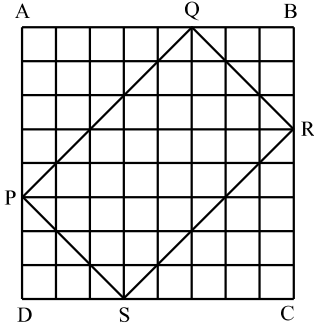
Q.26: $CC \div IV = \underline{\hspace{1cm}} ?$
A) IL B) L C) LI D) X

Q.27: A train starts at 7:45 pm from Mumbai and reaches Delhi next day at 10:30 am. Find duration of journey in hours.
A) 14.45 B) 14.0 C) 14.75 D) 14.5

Q.28: The cost of purchasing 10 bed sheets is ₹ 3000. The cost of transport is Rs. 200. If profit percentage is 25, then what is the selling price of 10 bedsheets?
A) ₹ 4000 B) ₹ 3600 C) ₹ 3300 D) ₹ 4200

Q.29: If 1st Aug 2023 is Tuesday, then what is a day on 1st Aug 2028?
A) Monday B) Thursday
C) Wednesday D) Tuesday

- Q.30** $600 - [150 \times 2 \div 10 + 10] = ?$
 A) 45 B) 560 C) 30 D) 15
- Q.31** The cost of 18 mangoes is Rs. 450. Find the cost of $8\frac{1}{2}$ dozen mangoes.
 A) ₹3000 B) ₹5400
 C) ₹2550 D) ₹2000
- Q.32** A square is divided in 4 identical rectangles as shown in adjacent figure. If perimeter of each rectangle is 50cm. Find area of square in cm^2

 A) 500 B) 425 C) 400 D) 350
- Q.33** An article was sold for ₹ 150 by making 200% profit. Find the cost price in Rs.
 A) 30 B) 50 C) 35 D) 60
- Q.34** 6.25% of 3200 = % of 1000
 A) 12.5 B) 20 C) 60 D) 48
- Q.35** Composite numbers greater than 5 that lie between a pair of twin primes is always a multiple of.
 A) 6 B) 2 only
 C) 3 only D) None of these
- Q.36** A number $1x30y$ is divisible by 55. Find value of $x + y$ among the given options.
 A) 14 B) 9 C) 12 D) 11
- Q.37** Find the difference between the two numbers whose G.C.D. is 7 and L.C.M. is 84.
 A) 0 B) 4 C) 3 D) 7
- Q.38** The product of two mixed fractions $\left(9\frac{a}{5}\right)$ and $\left(2\frac{b}{7}\right)$ is 21. If $b = 1$, then $a = ?$
 A) 2 B) 3 C) 4 D) 5
- Q.39** If $4004 \times 101 = 404404$, then $40.04 \times 1.01 = ?$
 A) 4.04404 B) 40.4404
 C) 404.404 D) 4040.40
- Q.40** A train covers a distance of 768km between two cities at a speed of 120 km/hr. If train departs at 7:20 in the morning, then express the time of reaching the destination in 24hrs clock.
 A) 14:08 B) 13:44 C) 14:28 D) 13:58
- Q.41** A father is elder to his son by 28 years. Mother's age is 4 times of the son's age at present. If the present sum of the ages of all 3 is 76, then find mother's age in years.
 A) 28 B) 32 C) 36 D) 64
- Q.42** The weight of 'a' dozen apples is 'b' kilos. Find the total weight of apples in the shipment which consists of 100 boxes, each box carrying 5 dozen apples.
 A) $\frac{500a}{b}$ B) $\frac{100b}{a}$ C) $\frac{500b}{a}$ D) $\frac{100a}{b}$

- Q.43** Refer figure. Jogger's track of width 2m is provided in the middle of the square park. Perimeter of Jogger's track is $\frac{3}{5}$ times of the perimeter of the square park. Find area of the square park in m^2 .

 A) 100 B) 400 C) 250 D) 200
- Q.44** If sell price of 4 items is equal to cost price of 6 items. Then the transaction results in
 A) 50% loss B) 25% profit
 C) 33% loss D) 50% profit
- Q.45** A square of size (8×8) cm is divided into 64 equal square. If 24 small squares are shaded, then find the percentage area of unshaded squares.
 A) 37.5% B) 45% C) 62.5% D) 54%
- Q.46** When 100 single digit non zero numbers are added, the digit at unit's place is 4. The maximum carry over can be.
 A) 90 B) 89 C) 91 D) 98
- Q.47** There are 4 distinct points A, B, C, D on a straight line, not necessarily in same order. The distance between A and B is 24 cm. Points C and D are both thrice as far from B as far from A. Then the distance between C and D is _____ cm
 A) 18 B) 27 C) 36 D) 12
- Q.48** $16 \left[\frac{3}{4} + \frac{3}{28} + \frac{3}{70} + \frac{3}{130} + \frac{3}{208} \right] = ?$
 A) $\frac{24}{13}$ B) $\frac{17}{65}$ C) 14 D) 15
- Q.49** Refer figure. Each small square has a side length 1 cm. An ant travels from C to A. In how many ways it can reach A using only the shortest route, if it can move only along the lines drawn in the diagram?

 A) 3 B) 4 C) 6 D) 8
- Q.50** A plank PQRS is placed on a tiled floor ABCD. What fraction of the floor is not covered by plank?

 A) $\frac{17}{32}$ B) $\frac{5}{8}$
 C) $\frac{3}{8}$ D) $\frac{15}{32}$