



INSTITUTE OF MATHEMATICS EDUCATION

MATHS APTITUDE TEST – 2025 (Primary Level)

Std. : V and VI

Question Paper

Time : 2 Hours

Date : 23.8.2025

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** Which of the following is equal to 10 crore?
A) 10^7 B) 10^6 C) 10^9 D) 10^8
- Q.2** 17 thousands \times 300 tens = _____ Hundreds
A) 510000 B) 51000 C) 5100 D) 5100000
- Q.3** If $x^2 - 1$ is an even number, then which of the following is odd?
A) $x + 3$ B) $x - 5$ C) $x + 2$ D) $2x + 4$
- Q.4** How many factors does the number 60 have?
A) 10 B) 9 C) 8 D) 12
- Q.5** If 'a' is a multiple of 'b' and 'b' is a factor of 'c', then which of the following can be H.C.F of a, b, c? (a, b, c are all distinct)
A) a B) b C) c D) 1
- Q.6** $39\frac{4}{5} = 0.8 + x$, then $x =$
A) 38 B) 39 C) 37 D) -39
- Q.7** $7 + 0.0007 + 70 + 0.7 = ?$
A) 77.7007 B) 77.77
C) 77.707 D) 77.0007
- Q.8** $3000 \text{ mm} \div 10 \text{ cm} = \underline{\hspace{2cm}}$ km
A) 0.003 B) 0.00003 C) 0.3 D) 0.0003
- Q.9** Express MCC + LVIII in international numbers.
A) 12158 B) 1248 C) 1258 D) 1228
- Q.10** 1.75 hrs = _____ sec.
A) 7200 B) 7500 C) 6000 D) 6300
- Q.11** Put correct sign ($<$, $>$, $=$) in the box.
 $1001 \div 11$ $(9 \times 9) + 9 + 1$
A) $<$ B) $>$ C) $=$ D) Can't Say
- Q.12** 1st January 2020 was Wednesday. Then what was a day on 1st March 2020?
A) Sunday B) Tuesday
C) Monday D) Thursday
- Q.13** $9090 \div 30 - (15 \times 20) = ?$
A) 30 B) 24 C) 3 D) 18
- Q.14** The cost of $1\frac{1}{2}$ dozen pens is ₹ 360. Find the cost of 7.75 dozen such pens.
A) ₹1860 B) ₹1680 C) ₹680 D) ₹860
- Q.15** Perimeter of a square is 60 cm. Find area in cm^2 .
A) 600 B) 225 C) 360 D) 300
- Q.16** $1111 \times 1001 \div 91 = ?$
A) 12221 B) 1221 C) 21112 D) 10201
- Q.17** Apples were sold for ₹450 by suffering a loss of 10%. Find the cost price of apples.
A) ₹495 B) ₹480 C) ₹550 D) ₹500
- Q.18** $3\frac{1}{8}\%$ of $x = 500\%$ of 500, then $x = ?$
A) 80000 B) 10000 C) 25000 D) 45000
- Q.19** What should be the digit in the place of * in the number $4*2*$ if difference in place values is 891?
A) 5 B) 9 C) 8 D) 7
- Q.20** How many times 33 should be subtracted from 33333 so that the remainder is 3?
A) 1000 B) 101 C) 1010 D) 1111
- Q.21** A natural number is multiplied by 4 and then 4 is subtracted from it. The answer obtained is divided by 4 so that quotient obtained is 4 and the remainder is zero. What is the natural number?
A) 4 B) 14 C) 8 D) 5
- Q.22** What is the smallest number to be added to 2965 so that the number obtained is divisible by 18?
A) 3 B) 2 C) 5 D) 1
- Q.23** The GCD of two numbers is 15 and their LCM is 225. What is the possible sum of two numbers?
A) 240 B) 120
C) Both A) & B) D) None of these
- Q.24** $1 - \frac{3}{8} + \frac{4}{6} = \frac{A}{72}$, then $A = ?$
A) 93 B) 48 C) 24 D) 60
- Q.25** Convert $\frac{34}{11}$ into recurring decimal fraction.
A) $3.\overline{99}$ B) $3.\overline{09}$ C) $3.\overline{91}$ D) $3.\overline{90}$
- Q.26** If x millimeters = y decameters, then $\frac{x}{y} =$
A) 1,000 B) 100 C) 1,00,000 D) 10,000
- Q.27** In the Roman numerals if $D \div C = X \div a$, then $a =$
A) V B) I C) III D) II
- Q.28** A person travels a distance of 120km by car with speed of 25 km/hr. What is the time taken to complete the journey (in minutes)?
A) 288 B) 240 C) 260 D) 268

Q.29 A tank is $\left(\frac{7}{8}\right)^{\text{th}}$ full. After removing 375 lit of water, it becomes half full. What is the capacity of the tank?
A) 500 lit B) 1000 lit C) 1200 lit D) 1500 lit

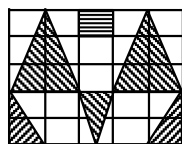
Q.30 Today is Saturday. What is the day after 150 days?
A) Monday B) Wednesday C) Tuesday D) Friday

Q.31 A car travels at a speed of 75km/hr for 2hrs 20 minutes and consumes 'a' lit. of petrol. How much petrol is needed to travel a distance of 700km?
A) 3a B) 4a C) 4.5a D) 2a

Q.32 4 squares of side 2cm each are cut from 4 corners of a square piece of paper of side 16 cm. What is the perimeter of a remaining paper?
A) 56cm B) 60cm C) 62cm D) 64cm

Q.33 If cost price of 6 articles equals sell price of 8 articles, then the transaction results in
A) profit B) loss C) no loss – no profit D) Can't decide

Q.34 A square of side 5 units is divided into 25 squares of area 1 unit each. What part of the total area is shaded?



A) $\frac{1}{2}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{2}{5}$

Q.35 If 'p' is a prime number, then how many factors does number 'p²' have?
A) 2 B) 1 C) 3 D) 4

Q.36 When a positive number 'n' is divided by 7, we get remainder equal to 3. Which of the following yields remainder 1 when divided by 7?
A) n-2 B) n-5 C) n+4 D) n+3

Q.37 Find the smallest number completely divisible by 15, 25, 40 and 75.
A) 2500 B) 600 C) 2400 D) 2000

Q.38 $\frac{(8 \times 76 \div 38 \times 5 - 50)}{(5 \times 7 \times 12 \div 3 - 32)} = ?$

A) $\frac{5}{18}$ B) $\frac{3}{4}$ C) $\frac{7}{11}$ D) $\frac{3}{7}$

Q.39 $\frac{1}{0.05}$ of $\left(\frac{2}{5}\right) = ?$

A) $\frac{1}{8}$ B) 80 C) 8 D) $\frac{1}{80}$

Q.40 A speed of the car increases by 5km/hr after every one hour. The distance travelled in the first hour is 50 km. Find the total distance travelled in 5hrs.
A) 255km B) 275km C) 285km D) 300km

Q.41 Father's age is 5 times the son's age now. After 6 years, father's age will be 3 times of the son's age then. Find the present age of father.
A) 33yrs B) 30yrs C) 36yrs D) 27yrs

Q.42 In a camp, there is a provision for 480 students for 100 days. If 270 more students join the camp, how many days will the provision last?
A) 64 B) 52 C) 72 D) 63

Q.43 If perimeter of a square is doubled, then area of the square increases by _____ %
A) 400 B) 200 C) 300 D) 100

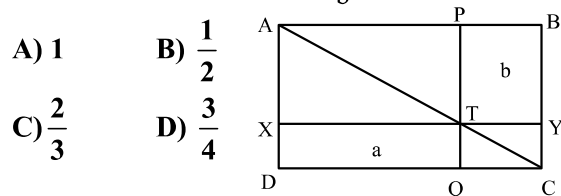
Q.44 An equilateral triangle is drawn on the side of square of area 100 cm². Find perimeter of triangle.
A) 60cm B) 45cm C) 90cm D) 30cm

Q.45 'A' sells an article to 'B' at 10% profit. Then 'B' sells the article to C at 10% profit. If cost price for 'A' is Rs. 300, then find cost price for 'C'.
A) ₹ 360 B) ₹ 363 C) ₹ 366 D) ₹ 369

Q.46 'a' and 'b' are positive integers, each greater than 1. If 11 (a-1) = 13 (b-1), then find the least positive value of a + b.
A) 3 B) 36 C) 26 D) 12

Q.47 Rajesh was given the task of removing numbers which have even number of divisors from the set of integers {1, 2, 3,, 100}. How many integers remain after Rajesh completes his job accurately?
A) 15 B) 14 C) 12 D) 10

Q.48 Refer figure. ABCD is a rectangle. PQ is drawn parallel to BC and XY is drawn parallel to AB. Point T lying on AC is also a point of intersection of XY and PQ. If A(□XTQD) = a and A(□PBYT) = b, then $\frac{a}{b} = ?$



A) 1 B) $\frac{1}{2}$ C) $\frac{2}{3}$ D) $\frac{3}{4}$

Q.49 The lengths of the sides of a triangle are three consecutive odd numbers. The shortest side is 20% of the perimeter. What percentage of the perimeter is the largest side?

A) 33% B) $46\frac{2}{3}\%$ C) 66% D) 12.5%

Q.50 If $\frac{1}{\left(5\frac{1}{3}\right)} + \frac{1}{\left(3\frac{3}{7}\right)} + \frac{1}{\left(4\frac{4}{7}\right)} + \frac{1}{x} = \frac{77}{96}$, then x =

A) $3\frac{1}{2}$ B) $6\frac{3}{5}$ C) $9\frac{6}{10}$ D) $8\frac{2}{3}$