



INSTITUTE OF MATHEMATICS EDUCATION

MATHS APTITUDE TEST – 2024 (Primary Level)

Std. : V and VI

Question Paper

Time : 2 Hours

Date : 03.08.2024

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 notes of ₹ 500 denomination will give amount ₹ 6 lakhs ?

- A) 1200 B) 2400 C) 1800 D) 900

Q.2: Find the sum of thirteen lakhs thirty-one and thirty one thousand thirteen?

- A) 31, 13,440 B) 13, 04,331
C) 30, 01,313 D) 13, 31,044

Q.3: Find 13th odd number before 264.

- A) 241 B) 239 C) 237 D) 233

Q.4 : Which of the following is divisible by 18?

- A) 3694 B) 4342 C) 1098 D) 2424

Q.5: Find sum of L.C.M. and G.C.D. of 28 and 70.

- A) 1960 B) 154 C) 98 D) 144

Q.6: To convert $\frac{7}{9}$ into improper fraction which smallest integer should be added to the numerator?

- A) 6 B) 9 C) 3 D) 8

Q.7: $10.01 - 1.10 = ?$

- A) 8.91 B) 9.91 C) 9.01 D) 8.901

Q.8: 215.7 centimeter = how many hectometer?

- A) 2.157 B) 0.02157
C) 0.002157 D) 21.570

Q.9: How will you write 449 in roman numerals?

- A) CDXLX B) CDLXIX
C) CDXLXI D) CDXLIX

Q.10: If minute hand is on 1 and hour hand is between 1 and 2, then how much time is left for 2 o'clock?

- A) 55 min B) 45 min C) 50 min D) 5 min

Q.11: Put correct sign $<$, $>$, $=$ in the box of the following:

$$221 \div 13 + 17 \square 221 \div 17 + 13$$

- A) $>$ B) $<$ C) $=$ D) Any other

Q.12: If it is Thursday on 7th March 2024, then find how many Thursdays were there in the month of February 2024?

- A) 4 B) 5 C) 3 D) Cannot say

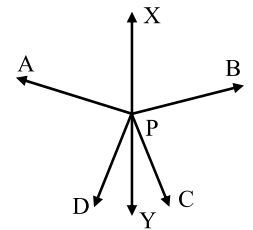
Q.13: Simplify $846 \div [88 + (3 \times 13 - 38) - 80]$

- A) 104 B) 49 C) 102 D) 94

Q.14: If the cost of 3 laptops is ₹ 1, 32,000, then find the cost of 5 laptops.

- A) ₹ 2, 20,000 B) ₹ 2, 02,000
C) ₹ 22, 000 D) ₹ 1, 20,000

Q.15: Refer figure. $\angle APB$ and $\angle DPC$ have common vertex P. Line XPY is the common bisector of angles $\angle APB$ and $\angle DPC$. If $\angle APB = 150^\circ$ and $\angle CPD = 40^\circ$, then $\angle BPD =$



- A) 125° B) 85° C) 135° D) 75°

Q.16: $5\frac{2}{7}\%$ of 140 = ?

- A) 35 B) 37 C) 3.7 D) 7.4

Q.17: Kiran scored 64 out of 80 marks and Suhas scored 80 out of 100 marks in exam. Who did better?

- A) Kiran B) Suhas C) Both same D) none

Q.18: What is the difference between 21st and 31st even number after 207?

- A) 10 B) 20 C) 18 D) 9

Q.19: Find the least number to be added to the number 8668 so that it is divisible by 12?

- A) 8 B) 4 C) 6 D) 10

Q.20: G.C.D. of two natural numbers is equal to 1 when numbers are

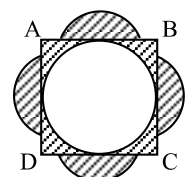
- A) co - prime B) consecutive
C) Both A and B D) none of these

Q.21: The L.C.M. and G.C.D. of the two numbers are 84 and 7 respectively. If one of the numbers is 28, then find the other number.

- A) 21 B) 49 C) 35 D) 14

Q.22: Refer figure.

ABCD is a square of side 4 units. Semi circles are drawn outside the square with diameter as 2 units. The area of the shaded portion in square units is



- A) 8 B) 16 C) $16 - 2\pi$ D) $8 - \pi$

Q.23: Find the difference between place values of underlined digits in the number 15.3565

- A) $\frac{405}{1000}$ B) $\frac{495}{10000}$ C) $\frac{495}{1000}$ D) $\frac{29}{100}$

Q.24: 37.569 decalitre = how many millilitre?

- A) 375690 B) 3756.90
C) 37569 D) 37.5690

Q.25: Convert 3.25 hours into seconds.

- A) 19500 B) 16800 C) 11700 D) 17100

Q.26: How will you write three hundred thirty five million in Indian system?

- A) Thirty Five Crores Thirty Lakhs
B) Thirty Three Crores Fifty Lakhs
C) Thirty Three Crores
D) Thirty Five Crores

Q.27: Find quotient in $330033 \div 33$

- A) 1001 B) 101 C) 10001 D) 100001

Q.28: If $x^2 + 1$ is an even number then which of the following is odd?

- A) $x^2 - 2$ B) $x - 3$ C) $x^2 + 3$ D) $x - 1$

Q.29: What should be the digit in the place of * in the number $483*5$ so that it is divisible by 33?

- A) 1 B) 7 C) 8 D) 4

Q.30: How many numbers between 21 and 61 have only 3 factors?

- A) 3 B) 2 C) 0 D) 1

Q.31: If $\frac{x}{48} = \frac{3}{8} = \frac{15}{y}$, then find $2y - 3x$.

- A) 25 B) 27 C) 26 D) 29

Q.32: $500.005 \div 55 = ?$

- A) 9.091 B) 9.91 C) 9.191 D) 1.911

Q.33: 4 kilogram + 25 hectogram + 36 gram = how many decagram?

- A) 56.57 B) 565.6 C) 653.6 D) 0.565

Q.34: $XLIX \times III - VII = ?$

- A) XIL B) CXIL C) CXL D) LIX

Q.35: 1.4 hrs. + 6 min - 600 sec = how many minutes?

- A) 80 B) 85 C) 87 D) 92

Q.36: If $5(3x - 7) = 40$, then $x = ?$

- A) 5.33 B) 5 C) 6.25 D) 9

Q.37: If it is Tuesday on 16th April 2024, then find the day on 15th July 2024.

- A) Sunday B) Friday
C) Tuesday D) Monday

Q.38: $(360 + 20 \times 7) \div [(200 - 720 \div 6) \times 0.25]$

- A) 35 B) -25 C) -35 D) 25

Q.39: Cost of 8 kg mangoes is ₹ 2800. What is the cost of 5.125 kg of mangoes?

- A) ₹ 1793.75 B) ₹ 1871.5
C) ₹ 2534 D) ₹ 2236

Q.40: A square garden has length of each side equal to 245 m. Find the cost of fencing the wire around the garden if rate is ₹ 10/m

- A) ₹ 4900 B) ₹ 4890 C) ₹ 9800 D) ₹ 4980

Q.41: If 4.25% of $x = 425$, then find x .

- A) 10000 B) 1000 C) 4250 D) 42500

Q.42: Find selling price of a book set which was bought for ₹ 400 and was sold at 15% profit.

- A) ₹ 415 B) ₹ 430 C) ₹ 460 D) ₹ 440

Q.43: Cost price of 10 pens equals sell price of 8 pens. What is a profit/loss percentage?

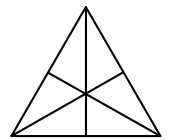
- A) 25% loss B) 25% profit
C) 20% profit D) No loss no profit

Q.44: If cost price of 4 pens is ₹ 180 and selling price of 2 pens is ₹ 120, then gain percent is

- A) 30 % B) 33.3 % C) 40 % D) 12.5 %

Q.45: In the adjoining figure, the number of triangles is

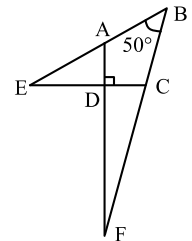
- A) 9 B) 15
C) 12 D) 16



Q.46: Refer figure.

$\angle AED + \angle CFD =$

- A) 80°
B) 50°
C) 40°
D) 160°



Q.47: The circumference of the circle is numerically greater than the area of the circle. The length of the radius of the circle must be less than

- A) 2 B) $\frac{5}{3}$ C) $\frac{7}{4}$ D) $\frac{11}{6}$

Q.48: The sum of two positive integers is 40 and their LCM is 48. Find their HCF.

- A) 12 B) 8 C) 4 D) 6

Q.49: During the year the date 10 - 01 - 01 was peculiar. It contained only 0's and 1's. How many such dates were possible in the same year?

- A) 6 B) 10 C) 9 D) 8

Q.50: If $A = \frac{2^4 + 2^4}{2^{-4} + 2^{-4}}$, $B = \frac{3^2 + 3^2}{3^{-2} + 3^{-2}}$ and

$C = \frac{4^2 + 4^2}{4^{-2} + 4^{-2}}$, then the greatest integer less

than $\frac{A+C}{B}$ is

- A) 2 B) 4 C) 6 D) 8

