INSTITUTE OF MATHEMATICS EDUCATION



MATHS APTITUDE TEST – 2023 (Primary Level)

Std.: V and VI Time: 2 Hours **Question Paper**

Date: 02.09.2023 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 man	n zeros are	there in 3	billions?
	A) 10	R) 8	C) 7	D) 0

Q.2: 6 divides a × b but it does not divide a and neither does it divide b. If values of a and b are less than 5; then how many such pairs can be obtained? (a, b \in N)

> C) 2 A) 0 **B**) 1 **D)** 3

Q.3: Three numbers are co-prime to each other and their product is 154. What are the numbers? A) 2, 7, 11 B) 2, 6, 7 C) 2, 9, 11 D) none

Q.4: How many natural numbers are there divisible by 4 and 5 both and less than 405?

A) 15 B) 20 C) 17 D) 18

If x is a multiple of y and y is also multiple of z, then L.C.M. of x, y and z is A) x only B) z only

C) y only D) x or y or z or any other

Which of the following is equal to $\frac{133}{494}$? Q.6:

A) $\frac{19}{13}$ B) $\frac{7}{26}$ C) $\frac{19}{26}$ D) $\frac{7}{13}$

Write the place value of circled digit in the number 76.030(4)7.

A) 0.04 B) 0.004 C) 0.0004 D) 4000

Q.8: Convert 475 milligrams into hectograms A) 0.0475 B) 0.475 C) 4.750 D) 0.00475

Q.9: How will you write MMCCCLIX in **International Number System?** A) 2259 B) 2349 C) 2359

Q.10: 'A' covered certain distance in 2.40 hours. That means he traveled for minutes. A) 144 B) 160 C) 140 D) 124

Q.11: Find a number such that if 6 is added to 4 times the number, it is equal to 10 less than 5

times the number. B) 16 C) 12

Q.12: If there is Wednesday on 3rd May, then what will be the date on 2nd Thursday of July of the same year?

A) 10th July C) 12th July

B) 14th July D) 13th July

Q.13: Simplify: $8 \div 8 \times 8 + \left(\frac{8}{8}\right) - 4 \times 2$

D) 9

Q.14: Cost of 3 dozen balls is ₹ 1260. Then how many balls can be purchased in ₹ 3150?

A) 90

B) 60

C) 75

D) 50

Q.15: Length and perimeter of a rectangle are 6 cm and 19 cm. respectively. Then find the area of the rectangle in sq. cm.

A) 27

B) 22

C) 21

D) 10.5

Q.16: Find the selling price of an article which was bought for ₹ 1200 and sold with $12\frac{1}{2}\%$ loss.

A)₹1150 B)₹1010 C)₹1100 D)₹1050

Q.17: Find $8\frac{3}{4}\%$ of $1600 - \frac{1}{4}$ th of 360 = ?A) 40 D) 100

Q.18: In the number 36021 if the middle digit '0' is removed, then by how much the place value of digit 3 will change?

A) 30000 B) 27000 C) 2700 D) 3000

Q.19: A 35 digit number with all 1 is divided by 11 and the remainder is 1. Find how many zeroes are there in the quotient?

B) 18 A) 16 C) 14 D) 17

Q.20: How many pairs of co-prime numbers can be formed from the following numbers? 21, 22, 23, 24, 25

A) 8

B) 9

C) 6

D) 7

Q.21: How many natural numbers less than 200 have only three factors?

A) 3

B) 2

C) 6

D) 4

Q.22: If G.C.D. of two numbers is 'a' and two numbers are 7a and 8a respectively, then what is the product of uncommon factors?

A) 7

B) 8

C) 56

D) 1

O.23: By how much the smallest fraction of the following is smaller than the greatest one?

 $\frac{3}{17}$, $\frac{4}{51}$, $\frac{5}{34}$

A) $\frac{5}{51}$ B) $\frac{5}{17}$ C) $\frac{5}{34}$ D) $\frac{7}{17}$

Q.24: $9696.96 \div 96 = ?$

A) 10.1010

B) 100.1001

C) 1010.1

D) 101.01

Q.25: Divide (0.3 decameter + 10 millimeter) by 43 and write quotient in centimeter.

A) 4.3

B) 7

C) 3.4

D) 17

