



INSTITUTE OF MATHEMATICS EDUCATION

MATHS APTITUDE TEST – 2022 (Primary Level)

Std. : V and VI

Question Paper

Date : 20.08.2022

Time : 2 Hours

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 : Five hundred millions is written as _____ in Indian system.

- A) Five crore
B) Fifty crores
C) Fifty lakhs
D) Five hundred crores

Q.2 : $2940294 \div 14 = ?$

- A) 2100021 B) 210021
C) 21021 D) 1200012

Q.3 : Find 27th even number after 129.

- A) 186 B) 184 C) 182 D) 188

Q.4 : Which of the following is not divisible by 33?

- A) 6402 B) 7953 C) 7428 D) 2475

Q.5 : Find L.C.M. of 75, 90, 105.

- A) 3150 B) $75 \times 90 \times 105$
C) 75 D) 105

Q.6 : Which of the following is the smallest fraction?

$$\frac{17}{85}, \frac{18}{108}, \frac{8}{32}, \frac{15}{45}, \frac{16}{112}$$

- A) $\frac{8}{32}$ B) $\frac{18}{108}$ C) $\frac{17}{85}$ D) $\frac{16}{112}$

Q.7 : Convert $\frac{9}{110}$ into decimal fraction.

- A) $7.\overline{81}$ B) $0.0\overline{81}$ C) $0.\overline{081}$ D) $0.\overline{801}$

Q.8 : $25 \text{ mg} + 3.5 \text{ g} + 0.06 \text{ kg} = \underline{\hspace{2cm}} \text{ g}.$

- A) 63.525 B) 6.3525
C) 603.525 D) None of these

Q.9 : Write CCII in international number system.

- A) 222 B) 220 C) 202 D) 200

Q.10 : 4 hrs. 4 min. 4 sec. is equal to how many seconds?

- A) 444 sec. B) 4644 sec.
C) 14644 sec. D) 4044 sec.

Q.11 : If $7n - 6 = 30 + n$, then $n = ?$

- A) $\frac{26}{6}$ B) $\frac{26}{7}$ C) 6 D) 5

Q.12 : How many Sundays will be there in the month of October this year?

- A) 4 B) 5
C) 3 D) data in sufficient

Q.13 : Simplify : $18 \times 6 - 6 \times 6 - 12$

- A) 1 B) 50 C) 51 D) 60

Q.14 : Cost of 'p' mangoes is m. Then find the cost of half dozen mangoes.

- A) 12mp B) $\frac{12m}{p}$ C) $\frac{12mp}{m}$ D) $\frac{6m}{p}$

Q.15 : If perimeter of a square is 42 cm, then find its area.

- A) 441 cm^2 B) 110.25 cm^2
C) 1764 cm^2 D) 312.50 cm^2

Q.16 : If SP of an article is 'x' and profit is equal to half of S.P., then find its cost price.

- A) $\frac{3x}{2}$ B) 2x C) $\frac{x}{2}$ D) $\frac{2x}{3}$

Q.17 : 35% of X = 1050. Find X.

- A) 3000 B) 1500 C) 300 D) 150

Q.18 : What should be added in the number 6423 so that it is divisible by 18?

- A) 2 B) 3 C) 4 D) 5

Q.19 : Find G.C.D. of 78, 156, 208.

- A) 26 B) 78 C) 13 D) 1

Q.20 : If $x - 3$ is an odd number, then find 15th even number after $x - 3$.

- A) $x + 32$ B) $x + 28$ C) $x + 26$ D) $x + 34$

Q.21 : What is the answer, if $\frac{6}{13}$ is subtracted from $\frac{1}{2}$?

- A) $\frac{10}{26}$ B) $\frac{6}{13}$ C) $\frac{1}{26}$ D) $\frac{19}{13}$

Q.22 : $4.242 - 5.25 + 1.1104 = ?$

- A) 1.1124 B) 0.1024 C) 0.0124 D) 1.0124

Q.23 : $1.33 \text{ kilogram} \div 19 = \text{how many decagram?}$

- A) 0.07 B) 0.007 C) 7 D) 0.7

Q.24 : $3 \text{ hrs. } 50 \text{ min.} + 4 \text{ hrs. } 30 \text{ min.} + 1 \text{ hr. } 55 \text{ min.} = \underline{\hspace{1cm}} \text{ hr } \underline{\hspace{1cm}} \text{ min.}$

- A) 10 hrs. 15 min B) 9 hrs. 45 min
C) 8 hrs. 35 min D) Any other

Q.25 : In the number 872650, 2 is removed from its place and kept at extreme left, by how much the place value of 2 will increase?

- A) 1980 B) 2000
C) 200000 D) 198000

Q.26 : If $221 = 17 \times 13$, then find the value of 17×15 .

- A) $221 + 25$ B) $221 + 42$
C) 265 D) $221 + 34$

Q.27 : If it is Saturday on 1st Jan 2022, then what will be the day on 1st Jan. 2025?

- A) **Tuesday** B) **Thursday**
C) **Wednesday** D) **Friday**

Q.28 : If SP is $\frac{2}{3}$ times of CP, then which of the following true?

- A) **There is Loss**
B) **There is profit**
C) **There is no loss no profit**
D) **Cannot say**

Q.29 : Two third of a number added to half of it gives 35. Find the number.

- A) **32** B) **35** C) **30** D) **50**

Q.30 : $\frac{VI \times VII - VII}{V} = ?$

- A) **V** B) **VI** C) **VII** D) **X**

Q.31 : Sunil runs 10 rounds around a circle every day. If he takes 25 minutes for one round, find how long he runs daily.

- A) **3.1 hrs.** B) **4 hrs. 10 min.**
C) **3 hrs. 20 min.** D) **4 hrs. 20 min.**

Q.32 : There is triangular garden with each side equal to 21 m. Find how much wire is required for four times fencing the garden.

- A) **252 m** B) **84 m**
C) **44 m** D) **Any other**

Q.33 : $a\%$ of $b + b\%$ of $a = ?$

- A) $\frac{ab}{50}$ B) $\frac{a+b}{50}$ C) $\frac{a+b}{100}$ D) $\frac{ab}{100}$

Q.34 : Simplify : $252 \div [50 - (13 \times 3 + 2 \times 4)]$

- A) **45** B) **44** C) **65** D) **84**

Q.35 : Find the difference between LCM and GCD of 117 and 195.

- A) **78** B) **546** C) **624** D) **Any other**

Q.36 : If $\frac{A}{90} = \frac{4}{5} = \frac{16}{B}$, then find $A - B$.

- A) **52** B) **1** C) **22** D) **42**

Q.37 : Which of the following is equal to $1.1 \times 0.11 \times 0.011?$

- A) **0.01331** B) **0.001331**
C) **0.1331** D) **Any Other**

Q.38 : If $5xy20$ is divisible by 11, then $y - x$ can be equal to

- A) **0** B) **3** C) **5** D) **8**

Q.39 : Find the number of prime numbers between 40 and 60.

- A) **8** B) **6** C) **5** D) **4**

Q.40 : A TV set is sold for ` 2500 with loss of ` 500. What should be its selling price to get 5% profit?

- A) ` **3500** B) ` **3000**

C) ` **3150**

D) ` **2500**

Q.41 : A car can travel 72 km. in 5 liters of petrol. How much petrol will be required to cover distance of 43.2 km?

- A) **5 liters** B) **7.2 liters**
C) **3.6 liters** D) **3 liters**

Q.42 : If g.c.d. of two numbers is 8 and their product is 384, then find their l.c.m.

- A) **384** B) **48** C) **8** D) **192**

Q.43 : 6 kiloliter + 5 hectoliter + 60 liters = how many decalitre?

- A) **65.6** B) **0.656** C) **6560** D) **656**

Q.44 : $\left[6\frac{1}{4}\% \text{ of } m + 8\frac{1}{3}\% \text{ of } n \right] \times 16 = ?$

- A) $\frac{m}{4} + \frac{n}{3}$ B) $\frac{2m + 3n}{100}$
C) $2m + n$ D) $\frac{3m + 4n}{3}$

Q.45 : The perimeter of an equilateral triangle is 18 cm. Find perimeter of another equilateral triangle whose side is 2 times that of original triangle.

- A) **36 cm** B) **54 cm**
C) **27 cm** D) **18 cm**

Q.46 : $\frac{11.1 \div 3.7}{0.05} \div \frac{0.75 \div 0.025}{1.1 \div 0.11} = ?$

- A) **0.1** B) **10** C) **20** D) **0.2**

Q.47 : Ashish bought a T-shirt at 12% discount and received an additional membership discount of ` 504. If the T-shirt cost him ` 1080, what was the original price of the T-shirt ?

- A) ` **1584** B) ` **1800** C) ` **1884** D) ` **1672**

Q.48 : Cost of x dozen mangoes are ` $3y$. Find cost of $8m$ mangoes.

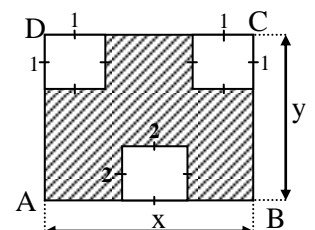
- A) $\frac{2x}{my}$ B) $\frac{2xy}{m}$ C) $\frac{2my}{x}$ D) $\frac{xy}{12m}$

Q.49 : G.C.D. and L.C.M. of two numbers a and b are 27 and 2079 respectively. If a is divided by 9, the quotient is 21 and remainder is zero. Then b is,

- A) **243** B) **189** C) **113** D) **297**

Q.50 : Find perimeter of shaded part in the given figure, if $\square ABCD$ is a rectangle with $AB = x$ cm and $BC = y$ cm

- A) $(x + y + 4)$ cm
B) $2(x + y + 2)$ cm
C) $(2x + y + 4)$ cm
D) $2(x + y - 3)$ cm



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