CLASS : 10

COMMON QUARTERLY EXAMINATION-2023-24

MATHEMATICS

Time Allowed : 3.00 Hours]   [Max. Marks : 100

SECTION – I

I.   Answer all of the following: 14x1=14

1. If $n(A \times B) = 6$ and $A = \{1, 3\}$ then $n(B)$ is ----------
   - a) 1
   - b) 2
   - c) 3
   - d) 6

2. If $\{(a, 8), (6, b)\}$ represents an identity function then the value of a and b are respectively
   - a) (8, 6)
   - b) (8, 8)
   - c) (6, 8)
   - d) (6, 6)

3. $f(x) = (x+1)^3 - (x-1)^3$ represents a function which is ----------
   - a) Linear
   - b) Cubic
   - c) Reciprocal
   - d) Quadratic

4. If the HCF of 65 and 117 is expressible in the form of $65m - 117$. Then the value of m is ----------
   - a) 4
   - b) 2
   - c) 1
   - d) 3

5. $7^a \equiv$ ---------- (mod 100)
   - a) 1
   - b) 2
   - c) 3
   - d) 4

6. If $1 + 2 + 3 + \ldots\ldots + n = k$ then $1^3 + 2^3 + 3^3 + \ldots\ldots + n^3 =$ ----------
   - a) K^3
   - b) K^2
   - c) $\dfrac{k(k+1)}{2}$
   - d) $(k+1)^2$

7. $y^2 + \dfrac{1}{y^2}$ is not equal to
   - a) $\dfrac{y^4 + 1}{y^2}$
   - b) $\left(y + \dfrac{1}{y}\right)^2$
   - c) $\left(y - \dfrac{1}{y}\right)^2 + 2$
   - d) $\left(y + \dfrac{1}{y}\right)^2 - 2$

8. The solution of $(2x - 1)^2 = 9$ is equal to
   - a) -1
   - b) 2
   - c) -1, 2
   - d) None of these

9. If $\triangle ABC$ is an isosceles triangle with $\angle C = 90°$ and $AC = 5$ cm, then AB is
   - a) 2.5 cm
   - b) 5 cm
   - c) 10 cm
   - d) $5\sqrt{2}$ cm

10. If in $\triangle ABC$, $DE \| BC$, $AB = 3.6$ cm, $AC = 2.4$ cm and $AD = 2.1$cm then the length of AE is
    - a) 1.4 cm
    - b) 1.8 cm
    - c) 1.2 cm
    - d) 1.05 cm

11. The straight line given by the equation $x = 11$ is
    - a) Parallel to X axis
    - b) Parallel to Y axis
    - c) Passing through the origin
    - d) Passing through the point (0, 11)

12. Slope of line $ax + by + c = 0$ is ----------
    - a) $\dfrac{b}{a}$
    - b) $\dfrac{a}{b}$
    - c) $\dfrac{-b}{a}$
    - d) $\dfrac{-a}{b}$

13. (2, 1) is the point of intersection of two lines
    - a) $x - y - 3 = 0$; $3x - y - 7 = 0$
    - b) $x + y = 3$; $3x + y = 7$
    - c) $3x + y = 3$; $x + y = 7$
    - d) $x + 3y - 3 = 0$; $x - y - 7 = 0$.

14. $\tan\theta \, \text{cosec}^2\theta - \tan\theta$ equal to
    - a) $\sec\theta$
    - b) $\cot^2\theta$
    - c) $\sin\theta$
    - d) $\cot\theta$.

SECTION – II

II.   Answer any 10 questions. Question No. 28 is compulsory.   10x2=20

15. A Relation R is given by the set $\{(x, y) / y = x+3 \, x \in \{0, 1, 2, 3, 4, 5\}$. Determine its domain and range.

16. A function f is defined by $f(x) = 3 - 2x$. Find x such that $f(x^2) = [f(x)]^2$.

17. Let f be a function $f : N \rightarrow N$ be defined by $f(x) = 3x + 2$, $x \in N$ (i) Find the images of 1 and 2
    ii) Find the pre-images of 29 and 53.

18. If $13824 = 2^a \times 3^b$ then find a and b.

19. Find a_8 and a_{15} whose n^{th} term is

$$a_n = \begin{cases} \dfrac{n^2-1}{n+3} & : \ n \text{ is even}, \ n \in N \\ \dfrac{n^2}{2n+1} & : \ n \text{ is odd}, \ n \in N \end{cases}$$

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