

Time: 3 hours

Max. Marks: 100

OBJECTIVE (COMPULSORY)

1.(a) Fill in the following blanks with the correct answers: (5)

- (i) $5^3 \div 5^2 = \underline{5}$
- (ii) The sum of all the angles of a cycle quadrilateral is 360
- (iii) $\sqrt{1 - \cos^2 \theta} = \underline{\sin \theta}$ (iv) 3median - 2mean = Mode
- (v) The G.C.D. of $18x^5y^2$ and $12x^3y^4$ is $6x^3y^2$.
- (b) Select the correct answer for each from the options given within brackets: (05)
- (i) π is a/an ----- number. (prime, rational, irrational)
- (ii) The solution set of $|4x| = -2$. (1, -2, \emptyset)
- (iii) $\text{Cosec}30^\circ = \underline{\quad}$ (2, $\frac{2}{\sqrt{3}}$, $\frac{1}{\sqrt{2}}$)
- (iv) If $A = \begin{bmatrix} 1 & 2 \\ 3 & p \end{bmatrix}$, then $p = \underline{\quad}$. (5, 6, -1)
- (v) If $\log_x 32 = 5$, $x = \underline{\quad}$ (2, 5, 16)

SECTION 'A'

2.(a) If $U = \{x \mid x \in N, \wedge x \leq 10\}$, $A = \{1, 3, 5, 7\}$, $B = \{1, 5, 6, 8\}$, Prove that $(A \cap B)' = A' \cup B'$. (05)

(b) If $A = \{2, 3, 4\}$ and $B = \{a, b\}$, find $A \times B$ (05)

3.(a) Simplify $\left(\frac{x^a}{x^b}\right)^{a+b} \times \left(\frac{x^b}{x^c}\right)^{b+c} \div 4(x^c \cdot x^a)^{a-c}$ (05)

(b) If $a + b = 9$ and $ab = 20$, find the value of $a^2 + b^2$. (05)

4.(a) Factorize any four of the following : (10)

- | | |
|------------------------------|--------------------------|
| (i) $10x^2 - 17x + 6$ | (iv) $x^4 - 11x^2 + 1$ |
| (ii) $a^6 - b^6$ | (v) $x^2y^2 - 16xy + 64$ |
| (iii) $ab + amx - bx - mx^2$ | (vi) $x^3 - x^2 + 2$ |

5.(a) If $A = \begin{bmatrix} -3 & -2 \\ 5 & 6 \end{bmatrix}$, find A^{-1} and also prove that $AA^{-1} = I$.

(b) What should be added to $x^4 + 4x^3 + 10x^2 + 14x + 5$ to make it to a perfect square? (05)

6. Find the solution set of the equations graphically. (Find four ordered pairs for each equation.) (10)

$$4x - y = 5$$

$$x + 5y = 17$$

7.(a) Find the value of $\frac{(86.2)^2 \times (37.37)}{591}$ with the help of log table

(b) Find the relation free of 'x' from the following equations:

$$\frac{x}{a} + \frac{a}{x} = 2b$$

$$\frac{x}{a} - \frac{a}{x} = 2c$$

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5 4 1 5 4 1 $\cos u \, dx$