

MATHEMATICS

2006

Time: 3 hours

Max. Marks: 100

Note: Answer ten questions in all – five questions from Section 'A' Three questions from Section 'B', One question from Section 'C' and the compulsory objective question No.1.

OBJECTIVE (COMPULSORY)

- 1.(a) Fill in the following blanks with the correct answers: (05)
- (i) The _____ coordinate of every point on X-axis is Zero.
 - (ii) If $A = \{a, b, c, d\}$, then $P(A)$ has _____ elements.
 - (iii) $(7 - \sqrt{2})(7 + \sqrt{2}) = \text{_____}$.
 - (iv) If $\log_x 81 = 4$, then $x = \text{_____}$.
 - (v) $\sin \theta \cdot \sec \theta = \text{_____}$.
- (b) Select the correct answer for each from the given brackets: 5
- (i) $\tan 60^\circ = \text{_____}$ $\left(\frac{1}{\sqrt{3}}, 1, \sqrt{3} \right)$
 - (ii) $x^4 + 64$ can be made a perfect square by adding _____.
($8x^2, 4x^2, 16x^2$)
 - (iii) The sum of 5 observations is 125, Its mean = _____.
(25, 50, 625)
 - (iv) The line which meets a circle at only one point is called a _____. (radius, tangent, diameter).
 - (v) An angle inscribed in a semi-circle is a/an _____ angle. (right, acute, obtuse)

SECTION 'A'

- 2.(a) If $U = \{x \mid x \in N \text{ and } x \leq 10\}$, $A = \{2, 3, 5, 7\}$, $B = \{2, 4, 6, 8, 10\}$, verify that $(A \cup B)^c = A^c \cap B^c$. (05+05)
- (b) If $A = \{a, b\}$, $B = \{2, 3\}$ and $C = \{3, 4\}$, find the value of $A \times (B \cup C)$
- 3.(a) Simplify: $\left(\frac{x^a}{x^b} \right)^{a+b} \cdot \left(\frac{x^b}{x^c} \right)^{b+c} \div 4(x^c \cdot x^a)^{a+c}$ (05)
- (b) Find the value of $x^3 - \frac{1}{x^3}$ when $x - \frac{1}{x} = -4$ (05)
4. Factorise any Four of the following: (10)
- (i) $ax^3 + ax^2 - bx^2 - bx - cx - c$
 - (ii) $x^2y^2 - 16xy + 64$
 - (iii) $x^2 - x - 2y + 8y^2$
 - (iv) $x^4 + 64$
 - (v) $x^3 - x^2 + 2$
 - (vi) $27a^3 - 64b^3 - 1 - 36ab^2$
- 5.(a) If $A = \begin{bmatrix} 6 & 2 \\ 4 & 3 \end{bmatrix}$, find A^{-1} and verify that $A \cdot A^{-1} = I$. (05)
- (b) If $x^2 + \frac{1}{x^2} = p = 2$ and $x^2 - \frac{1}{x^2} + q = 3$, then find the relation free from 'x' (05)
6. Find the solution set of the following equations graphically (find four ordered pairs for each equation.) (10)
- $3x - 2y = 7$

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