

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 $U = \{x \mid x \in N, A \leq x \leq 10\}$, $A = \{2, 3, 5, 7\}$, $B = \{2, 4, 6, 8, 10\}$, 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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Parallel Processing and Applied Mathematics Roman Wyrzykowski,Jack Dongarra,Konrad Karczewski,Jerzy Wasniewski,2008-05-29 This book constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Parallel Processing and Applied Mathematics PPAM 2007 held in Gdansk Poland in September 2007 The 63

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