# MATHEMATICS

2006

Time: 3 hours

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)

- Fill in the following blanks with the correct answers: (05)
   The ----- coordinate of every point on X-axia is Zero.
  - (ii) If A = {a,b,c,d}, then P(A) has ----- elements.
  - (iii)  $(7 \sqrt{2}) (7 + \sqrt{2}) = -----$
  - (iv) If log<sub>x</sub> 81 = 4, then x = -----
  - (v) Sin θ . sec θ = -----.
  - (b) Select the correct answer for each from the given brackets: 5
    - (i)  $\tan 60^\circ = ---- \left(\frac{1}{\sqrt{3}}, 1, \sqrt{3}\right)$
    - (ii) x<sup>4</sup> + 64 can be made a perfect square by adding ------(8x<sup>2</sup>, 4x<sup>2</sup>, 16x<sup>2</sup>)

    - (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  $U = \{x \mid x \in N \land x \le 10\}$ ,  $A = \{2,3,5,7\}$ ,  $B = \{2,4,6,8,10\}$ , verify that  $(A \cup B)' = A' \cap B'$ . (05+05)
  - (b) If A={a,b}, B={2,3} and C= {3,4}, find the value of A x (B U C)
- 3.(a) Simplify:  $\left(\frac{x^a}{x^b}\right)^{a+b} \cdot \left(\frac{x^b}{x^c}\right)^{b+c} + 4(x^c \cdot x^a)^{a-c}$  (05)
  - (b) Find the value of  $x^3 \frac{1}{x^3}$  when  $x \frac{1}{x} = -4$  (05)
- 4. Factories any Four of the following:(i)  $ax^3 + ax^2 bx^2 bx cx c$ (ii)  $x^2y^2 16xy + 64$ (iii)  $x^2 x 2y + 8y^3$ (iv)  $x^4 + 64$ (v)  $x^3 x^2 + 2$ (vi)  $27a^3 64b^6 1 36ab^2$
- 5.(a) If  $A = \begin{bmatrix} 6 & 2 \\ 4 & 3 \end{bmatrix}$ , find  $A^{-1}$  and verify that  $A \cdot A^{-1} = 1$ . (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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**Albert A Gayle** 

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