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-axia is Zero.

    (ii) If A = {a,b,c,d}, then P(A) has --------- elements.

    (iii) $(7 - \sqrt{2})(7 + \sqrt{2}) = $ ----------.

    (iv) If $\log_x 81 = 4$, then x = ----------.

    (v) $\sin\theta \cdot \sec 0 = $ ----------.

(b) Select the correct answer for each from the given brackets: 5

    (i) $\tan 60° = $ ---------- $\left(\dfrac{1}{\sqrt{3}}, 1, \sqrt{3}\right)$

    (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 $U = \{x \mid x \in N \wedge x \leq 10\}$, $A = \{2,3,5,7\}$, $B=\{2,4,6,8,10\}$, 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 $A \times (B \cup C)$

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

(b) Find the value of $x^3 - \dfrac{1}{x^3}$ when $x - \dfrac{1}{x} = -4$ (05)

4. Factories any Four of the following:- (10)

    (i) $ax^3 + ax^2 - bx^2 - bx - cx - c$ (ii) $x^2y^2 - 16xy + 64$

    (iii) $x^2 - x - 2y + 8y^3$ (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 $A.A^{-1} = 1$. (05)

(b) If $x^2 + \dfrac{1}{x^2} = p = 2$ and $x^2 - \dfrac{1}{x^2} + q = 3$, 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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revised full papers of the main conference presented together with 85 revised workshop papers were carefully reviewed and selected from over 250 initial submissions The papers are organized in topical sections on parallel distributed architectures and mobile computing numerical algorithms and parallel numerics parallel and distributed non numerical algorithms environments and tools for as well as applications of parallel distributed grid computing evolutionary computing meta heuristics and neural networks The volume proceeds with the outcome of 11 workshops and minisymposia dealing with novel data formats and algorithms for dense linear algebra computations combinatorial tools for parallel sparse matrix computations grid applications and middleware large scale computations on grids models algorithms and methodologies for grid enabled computing environments scheduling for parallel computing language based parallel programming models performance evaluation of parallel applications on large scale systems parallel computational biology high performance computing for engineering applications and the minisymposium on interval analysis **Mathematical Treatment of Nanomaterials and Neural Networks** Jia-Bao Liu,Muhammad Javaid,Shaohui Wang,Jinde Cao,2021-12-03 **PISA 2012 Assessment and Analytical Framework Mathematics, Reading, Science, Problem Solving and Financial Literacy** OECD,2013-02-11 This book presents the conceptual framework underlying the fifth cycle of PISA which covers reading science and this year s focus mathematical literacy along with problem solving and financial literacy **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,2007

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