Time allowed: 2.40 hours

Total Marks: 60

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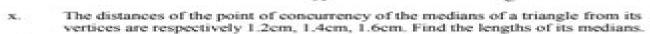
Note:	Attempt any nine parts from Section 'B' and any three questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if
	required. Write your answers neatly and legibly. Log book and graph paper will be provided on demand.

#### SECTION - B (Marks 36)

- Q.2 Attempt any NINE parts from the following. All parts carry equal marks. (9 × 4 = 36)
  - i. If  $A = \begin{bmatrix} 1 & 0 \\ 2 & 3 \end{bmatrix}$ 
    - (a) Find A
    - (b) Find A A<sup>t</sup>
    - (c) Also check if A A<sup>t</sup> is Skew-Symmetric.
  - ii. Show that  $\left(\frac{\omega^{\omega}}{\sqrt{S}}\right)^{\alpha+\delta} \cdot \left(\frac{\omega^{\delta}}{\sqrt{r}}\right)^{\delta+\epsilon} \cdot \left(\frac{\omega^{\delta}}{\sqrt{s}}\right)^{c\otimes \alpha} = 1$
  - iii. Use logarithm to find the value of √25.47 x √342.2
  - iv. If  $x = \frac{\sqrt{7} + \sqrt{2}}{\sqrt{7} \sqrt{2}}$ , find the values of  $x + \frac{1}{x}$  and  $x^2 + \frac{1}{x^2}$
  - v. Factorize (x-1)(x-2)(x+3)(x+4)+6
  - Find the value of k for which the expression 4x<sup>4</sup> - 12x<sup>3</sup> + 37x<sup>2</sup> - 42x + k is a perfect square
  - vii. If x + 2y = 5 and 3x y = 1
    - (a) Draw the graph of above equations on the same plane.
    - (b) Do the lines intersect?
    - (c) What is the solution of given lines?

Note: Candidates can make their own grid on the answer sheet.

- Use the distance formula to check whether or not the points (1, 1), (-2, -8) and (4, 10) lie on a straight line.
- ix. In the given figure,  $\overline{AB} \cong \overline{CB}$  and  $L1 \cong L2$ Prove that  $\triangle ABD \cong \triangle CBE$



xi. Any point on the bisector of an angle is equidistant from its arms. Prove it.

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