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Total No. of Questions—24 Total No. of Printed Pages—4

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Port III

MATHEMATICS, Paper - I(B)

(English Version)

Time: 3 Hours!

[Max. Marks: 75

Note :- This question paper consists of THREE sections A, B and C.

SECTION A

 $10 \times 2 = 20$

- L. Very short answer type questions :
 - (i) Attempt ALL questions.
 - (ii) Each question carries TWO marks.
- Find the value of x, if the slope of the line passing through (2, 5) and (x, 3) is 2.
- 2. Find the value of p, if the straight lines x + p = 0, y + 2 = 0 and 3x + 2y + 5 = 0 are concurrent.
- If (3, 2, -1), (4, 1, 1) and (6, 2, 5) are three vertices and (4, 2, 2) is the centroid of a tetrahedron, find the fourth vertex.
- 4. Find the equation of the plane passing through (1, 1, 1) and parallel to the plane x + 2y + 3x 7 = 0.
- 5. Compute :

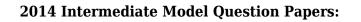
 $\lim_{x \to \infty} \frac{11x^3 - 3x + 4}{13x^3 - 5x^2 - 7}$

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