

0193

Total No. of Questions: 24
Total No. of Printed Pages: 3

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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 × 2 = 20)

I. Very short answer type questions.

(i) Answer **ALL** the questions.

(ii) Each question carries **TWO** marks.

1. Find the slope of the line $x + y = 0$.

2. Transform the equation $4x - 3y + 12 = 0$ into normal form.

3. Find the distance between the points $(3, -4, -2)$ and $(1, 0, 7)$.

4. Write the equation of the plane $4x - 4y + 2z + 5 = 0$ in the intercept form.

5. Compute : $\lim_{x \rightarrow \infty} \frac{x^2 + 5x + 2}{2x^2 - 5x + 1}$.

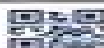
6. Show that $\lim_{x \rightarrow 0^+} \left(\frac{2|x|}{x} + x + 1 \right) = 3$.

7. Find the derivative of the function $e^x + \sin x \cos x$.

8. Find the derivative of the function $\tan^{-1} \left(\frac{2-x}{1+2x} \right)$.

9. Find the slope of the tangent to the curve $y = 3x^2 - 4x$ at $x = 4$.

10. Write the statement of the Rolle's theorem.



[P.T.O.]

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15 Supplementary Question Paper

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15 Supplementary Question Paper:

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Regarding Second-class Mail Matter United States. Congress. Joint Commission of Congress on Second-Class Mail Matter,1907 **IMF Staff Papers Supplement** International Monetary Fund. Research Dept.,1985-01-01 This paper presents the bibliography cover books pamphlets reports and periodical articles that describe the functions organization and activities of the IMF Publications on the various aspects of international economics are included only when they contain material relating specifically to the IMF Previous bibliographies in this series that were compiled by Martin L Loftus were published in Staff Papers Vol 1 April 1951 Vol 3 April 1953 Vol 4 August 1955 Vol 6 November 1958 Vol 9 November 1962 Vol 12 November 1965 Vol 15 March 1968 Vol 19 March 1972 and Vol 21 July 1974 Mrs Salda prepared the bibliographies that were published in Vol 25 March 1978 Vol 26 June 1979 Vol 27 June 1980 Vol 29 June 1982 Vol 30 September 1983 and Vol 31 Supplement December 1984 **AQA Foundation** ,2002 Developed for the AQA Specification revised for the new

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