

FACULTY OF ENGINEERING

B.E. I – Semester (Main) Examination, December 2018

Subject: Mathematics – I

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions from Part A and Five questions from Part B.

PART – A (10x2 = 20 Marks)

- 1) Determine the nature of the series $\sum_{n=1}^{\infty} \frac{2+5n}{7n-3}$.
- 2) Determine the nature of the series $\sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n}$.
- 3) Verify Rolle's mean value theorem for the function $f(x) = \frac{\sin x}{e^x}$ on $[0, \pi]$.
- 4) Find the envelope of the family of straight lines $x \cos \alpha + y \sin \alpha = a$ where α is the parameter.
- 5) Discuss the continuity of the function

$$f(x, y) = \begin{cases} \frac{(x-y)^2}{x^2 + y^2} \cdot (x, y) & (x, y) \neq (0, 0) \\ \text{at } (0, 0) \end{cases}$$

Engineering Mathematics 1 Question Papers

Michael Rajnik



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