

## 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  $\alpha$  is the parameter.
- 5) Discuss the continuity of the function

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

# Engineering Mathematics 1 Question Papers

**JE Gale**



## **Engineering Mathematics 1 Question Papers:**

## **Engineering Mathematics 1 Question Papers** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Engineering Mathematics 1 Question Papers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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