

24002

B.Tech. Ist Semester (Common for All Branches)
(Common with Special chance) F Scheme
Examination, December-2019

MATHEMATICS-I

Paper-Math-101-F

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt five questions in total by selecting one question from each section. Question No. 1 is compulsory.

1. (a) Test the convergence of the series :

$$\sum_{n=1}^{\infty} \frac{\sqrt{n}}{n^2 + 1}$$

- (b) Find the rank of the matrix :

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 7 \\ 3 & 6 & 10 \end{bmatrix}$$

- (c) Expand $\log(1+x)$ by Maclaurin's series.
(d) Define Beta and Gamma functions and write relation between them.

Section-A

2. Discuss the convergence of the series :

$$1 + \frac{x}{2} + \frac{2!}{3^2} - x^2 + \frac{3!}{4^3} x^3 + \frac{4!}{5^4} x^4 + \dots$$

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