Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (AI & DS/AI & ML/ Block Chain / CSE / CE / CS / Computer Science and Design / EEE / EE / ECE / Electronics & Telecommunication Engineering / FT / IT / ME / Robotics & Artificial Intelligence/ Internet of Things and Cyber Security Including Block Chain Technology) (Sem.—1) ENGINEERING MATHEMATICS.

Subject Code: BTAM101-23 M.Code: 93796

Date of Examination: 08-12-2023

Time: 3 Hrs.

Max. Marks: 60

#### INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION B & C have FOUR questions each.
- J. Attempt any FIVE questions from SECTION B & C carrying EIGHT marks each,
- 4. Select atleast TWO questions from SECTION B & C.

#### SECTION-A

#### I. Answer briefly :

- a) What do you mean by bounded and unbounded sequences?
- b) Prove that the sequence  $\frac{2n-7}{3n+2}$  is monotonically increasing.
- c) Define p-Test for the series.
- d) Find the length of the arc of the parabola  $x^2 = 4ay$  extending from the vertex to one extremity of the latus rectum.
- e) Test for convergence of integral  $\int_{0}^{\infty} \frac{\sin^{2} x}{x^{2}} dx$ .
- f) Define Beta function.
- g) State Euler's theorem for homogeneous function.
- h) Show that the function  $f(x,y) = \frac{2x^2y}{x^4 + y^2}$  has no limit as  $(x,y) \to (0,0)$ .

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