Faculty of Engineering and Technology
Model Question Paper – B. Tech.

Department	:	**Mathematics and Statistics**
Programme	:	**B. Tech. (All Branch, Except AI & ML, M&C)**
Semester / Batch	:	**3 / 2023**
Date of Test	:	**……………..**
Course Code	:	**MTF201A**
Course Title	:	**Engineering Mathematics-3**

Model Question paper for semester end examination (Theory)

INSTRUCTIONS TO STUDENTS:
1. Answer any five questions
2. Missing data may be appropriately assumed
3. Notations used have usual meaning

Maximum Duration: 90 min   **Maximum Marks: 50 marks**

Q. No.	Question	Marks
1.	Velocity/Acceleration/Arc length /Work done	**10**
2.	Gradient /Directional derivative /divergence of a vector field /curl of a vector field	**10**
3.	Double integrals with constant limits /Greens Theorem/ Gauss divergence theorem	**10**
4.	Correlation / Conditional probability	**10**
5.	Bayes theorem /Random variables /Binomial differentiation	**10**
6.	Subspace/Problems on subspace/ Linear dependent and linear independent/ Basis and dimension	**10**