

Faculty of Engineering and Technology

SEE Model Question Paper – B. Tech.

Department : Mathematics and Statistics
Programme : B. Tech. (All branches)
Semester / Batch : 2 / 2023
Date of Test :
Course Code : MTF111A
Course Title : Engineering Mathematics – 2

Maximum Duration: 2 Hours

Maximum Marks: 50

Q. No.	Question	Marks	CO
1	a) Definition	1	
	b) Homogeneous liner differential equation	4	
	c) Non-homogeneous (Undetermined coefficient)	5	
2	a) Non-homogeneous (Variation of parameters)	5	
	b) Application of second order	5	
3	a) Laplace transformation (Based on the standard formulas)	5	
	b) Properties of Laplace transformation	5	
4	a) Laplace transformation of the following periodic function/unit step function	5	
	b) Inverse Laplace transforms of functions by applying partial fractions	5	
5	a) Solving Differential equation using Laplace transformation	5	
	b) Fourier series	5	
6	a) Half Range Fourier Series	5	
	b) Fourier transform	5	