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Time: 2-hrs.

BEC358B

Third Semester B.E./B.Tech. Degree Examination, June/July 2025 MATLAB Programming

Max. Marks: 50

Answer any FIVE full questions, choosing ONE full question from each module.

2. M: Marks, L: Bloom's level, C: Course outcomes.

		Module – 1	M	L	C
Q.1	a.	What are the basic commands available in MATLAB. And also explain.	5	L2	CO
	b.	Explain in detail about arithmetic operations with examples.	5	L2	CO
		OR			
Q.2	a.	What is an array in MATLAB? How to create arrays with example.	5	L2	CO
	b.	Write a MATLAB program to find the sum of the squares of first 100 natural numbers. Also write the output.	5	L3	CO
		Module – 2			
Q.3	a.	How to create plot using plot function and also specifying line styles and colors.	5	L3	CO
	b.	How to create matrix in MATLAB and write all the matrix functions with examples.	5	L3	CO
		OR	745		
Q.4	a.	Plot sin(x) and cos(x) on the same figure, then on the same axis using different colors and indicate title and label the axis.			CO2
	b.	 If x = [1 4; 8 3] find i) The inverse matrix of x ii) The diagonal of x iii) The sum of each column and the sum of whole matrix x iv) The transpose of x v) The maximum and minimum of x. 	5	L3	CO2
		Module – 3			
Q.5	a.	What are the mathematical expressions are there in MATLAB and explain with example.	5	L2	CO3
	b.	Explain how to create a new directory and change the current directory with example.	5	L2	CO3
1		OR			
Q.6	a.	Explain in detail how to read data into MATLAB's workspace with example.	5	L2	CO3
	b.	Explain in detail about anonymous functions.	5	L2	CO2
		Module – 4			
Q.7	a.	Explain in detail about array arithmetic operations with examples.	5	L2	CO3
	b.	Explain the mathematical functions available in MATLAB with example.	5	L2	CO3
		OR		2 F	
Q.8	a.	Explain in detail about relational and logical operations with example.	5	L2	CO3
	b.	Explain the following: i) How to create character arrays ii) How to create 2D character arrays.	5	L2	CO3
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		Module – 5		R	
Q.9	a.	Explain in detail about M-file scripts with examples.	5	L3	CO4
Q.	b.	Explain in detail about M-file functions with examples.	5	L2	CO4
	544	OR .			
Q.10	a.	Differentiate between script and function and also input and output arguments.	5	L3	CO4
	b.	Differentiate between script and function and also input and output arguments. Write some MATLAB language specific features. CMR 1008 - 560 037	5	L1	CO4

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