

Code No: **R41055**

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Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018

MATLAB

(Open Elective)

Max. Marks: 75

Time: 3 hours

Answer any FIVE Questions All Questions carry equal marks *****

1	a) b)	List out and explain the advantages and disadvantages of MATLAB. Explain about help and lookfor commands in MATLAB.	[8] [7]
2	a)	Write a MATLAB Program to plot the following graphs i) e ^{-at} (cosbt+cosbt ²)	
	b)	ii) e ^{-at} sinbt. A provision is to be given to take the values of a and b as inputs Explain the procedure to create a function file.	[8] [7]
3	a) b)	Explain various array and matrix operations in MATLAB. What are different logical and relational operators in MATLAB?	[8] [7]
4	a) b)	Discuss about if, if-else, nested if structures in MATLAB. Write the MATLAB statements required to calculate and print out the squares of all the even integers between 0 and 50. Create a table consisting of each	[8]
		integer and its square, with appropriate labels over each column.	[7]
5	a) b)	Discuss about sub function, nested function, and private functions. Write a function to calculate the cross product of two vectors A and B defined	[8]
	0)	as, $A=ia_x+ja_y+ka_z$, $B=ib_x+jb_y+kb_z$.	[7]
6	a)	Explain the following (i) plot (ii) stem (iii) xlabel (iv) ylabel	
	b)	(v) legend (vi) title (vii) plot3 (viii) figure Suppose that George, Sam, Betty, Charlie, and Suzie contributed \$15, \$5,	[8]
	0)	\$10, \$5, and \$15, respectively, to a colleague's going-away present. Create a pie chart of their contributions. What percentage of the cost was paid by Sam?	[7]
7	a)	Explain how to change the object properties at the creation time and after creation time.	[8]
	b)	Explain the special functions to help find the handles of objects with an	
		example.	[7]
8	a) b)	Enumerate and explain the procedure of creating and displaying a GUI. Write a GUI program that plots the equation $y(x)=ax^2+bx+c$	[8] [7]

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