Reg. No. :						

	Question Paper Code: U7C03			
	B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024			
	Seventh Semester			
	Computer Science and Business Systems			
	21UCB703-IT WORKSHOP			
	(Regulations 2021)			
Dur	ation: Three hours Maximum	n: 100 Marks		
	Answer ALL Questions			
	PART A - (10 x 2 = 20 Marks)			
1.	List out the Strength of MATLAB	CO1- U		
2.	How do Creating MATLAB matrix variables	CO2- App		
3.	How to find whether the given number is positive number or not	CO2- App		
4.	How to access and print the third element of the array $A = [1 2 3 4 5]$ in MATLAB.	CO2- App		
5.	Write MATLAB code to solve the Matrix with Specific Patterns.	CO2- App		
6.	How to Define Magic Matrix with example.	CO1- U		
7.	Define M-File Scripts.	CO1- U		
8.	List the types of methods in input to a script	CO1- U		
9.	Define Examining values.	CO1- U		
10.	Scenario: Data Processing Script Failing	CO2- App		
	You have a script that processes data from a file, but it fails with a "Index exceeds matrix dimensions" error.			
	PART – B (5 x 16= 80 Marks)			
11.	(a) Explain in detail about the good programming practices in CC MATLAB.	01 - U (16)		

Or

(b) Explain in detail about the controlling the hierarchy of operations CO1 - U (16) of precedence with example for MATLAB?

12.	(a)	You can determine whether a character is a vowel or a consonant by checking if it is one of the vowels (a, e, i, o, u) or not. Or	CO2 - App	(16)
	(b)	How you can implement this Compute the GCD using the Euclidean algorithm in MATLAB using a while loop:	CO2 - App	(16)
13.	(a)	Describe detail about the mathematical functions in MATLAB with example.	CO1- U	(16)
		Or		
	(b)	How to define special matrices and list out the some special matrices. how to create them, and their properties.	CO1- U	(16)
14.	(a)	Write a example of a MATLAB function that computes the square and cube of a number	CO2- App	(16)
		Or		
	(b)	Write a example of a MATLAB function that computes the arithmetic operations.	CO2- App	(16)
15.	(a)	Suppose you have a function that is supposed to calculate the average of a list of numbers, but it's not returning the expected results. Here's how you might debug this issue.	CO2- App	(16)
		Or		
	(b)	Scenario: Performance Issues with Large Data Sets A function that performs matrix operations runs very slowly with	CO2 - App	(16)

large matrices.