



PCA1

[Internal:10; Experiment:20 (CO1: 5, CO2: 5, CO3: 5, CO4:5); Viva:10]

	Answer the entire question	Marks	CO Mapping	BT Level
1.	a) Write a program to solve linear equations: <ul style="list-style-type: none"> • $2x+3y-z=7$ • $4x-y+5z=3$ • $-6x+2y+z=-5$ b) Write a MATLAB program to check whether two strings are anagrams of each other. (e.g., " listen " and " silent " are anagrams)	5+5	CO1,CO3	BTL2,BTL3
2.	a) Write a user-defined anonymous function in MATLAB, with one positive integer input argument and one output argument to compute the nth Fibonacci number. b) Write a matlab program to perform following operation using 4x4 matrix. Assume any numbers i. Scalar Operations of Matrices ii. Transpose of a Matrix iii. Concatenating Matrices iv. Matrix Multiplication v. Inverse of a Matrix	5+5	CO2,CO4	BTL2,BTL3