

Bachelor in Computer Application (BCA)**First Semester****Mathematics I (CAMT 104)****Practical examination - model question**

Attempt all the questions.

[8 x 5 = 40]

1. What is MATLAB? Write the basic features of MATLAB.
2. Write the uses of run, whose, clc, clear and clearall command in MATLAB.
3. Write a set of commands to solve following equations:
 $5x - 3y = 7$
 $2x + 4y = 8$
4. Write a sequence of commands to enter and calculate the inverse of any 3 x 3 matrix.
5. Find the roots of the equation $5x^2 + 2x - 3 = 0$.
6. Write a sequence of commands to enter and calculate the magnitude of vector.
7. Write a script file to solve any parabolic equation.
8. Create a script file to plot a graph using following information:

x	0	2	4	6	8	10	12	14	16	18	20	24	26	28	30	32	34
y	Sin(x)																

Dear Students, it's just a sample question paper, not a final question paper. You can use either Mathematica or MATLAB for writing commands and scripts as per your convenience, if your external examiner will not mention any specific one.

External Examiner will evaluate you on following parameters:

Topic	Practical	Lab Report	Viva
Marks	10	5	5
Description	Written Test + Practical Test	Documentation of laboratory activities instructed by Laboratory instructor.	Viva