PVP 14

Code: EC6T6FE-E, IT6T5FE-B, ME6T6FE-C

III B.Tech - II Semester – Regular Examinations – May 2017

MATLAB PROGRAMMING AND APPLICATIONS
(Common for ECE, IT & ME)

Duration: 3 hours Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1.

a) List special variables available in MATLAB.
b) What is the syntax for ploting MatLab?
c) Give the priority order for arithmetic operators in MatLab.
d) List all relational operators in MatLab.
e) What are return commands in MatLab?
f) Write syntax for while-end loop in MatLab.
g) Write built in functions for single variable polynomial.
h) What is key word for simple integration for 2sin(x) in MatLab?
i) Solve x^2-3x+4=0 in MatLab.
j) What is the difference between mesh and surface plots in MatLab?
k) What is handle command in MATLAB?

PART – B

Answer any *THREE* questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Explain clearly how to start a m-file program in MatLab and how to save and execute in MatLab? 8 M

   b) Plot y=2tsin (2t) for $0 \leq t \leq 50$ and see to it that Y-axis is amplitude and X–axis is time and title is y(t). 8 M

3. a) Create two different 3X3 matrices say A & B and perform A/B and A./ B and explain its execution clearly in MatLab. 8 M

   b) Briefly explain the logical operators in MATLAB. 8 M

4. a) Write a short note on fplot, ezplot, ezpolar built in functions in MatLab? 8 M

   b) Write a MatLab program to sum up all the numbers which are less than 50 in given list.
   A = [10, 9, 55, 2,-3, 4, 65, 7] 8 M

5. a) Find the solution for x+2y+3=1, 3x+3y+4z=2, 4x+3y+6z=2 and explain its execution in MatLab. 8 M

   b) Write a short note on Interpolation in MatLab? 8 M

6. a) Explain different commands in 3-D plots with examples. 8 M

b) Explain the following Built in functions

i) gcf ii) gca iii) gco iv) get 8 M