

Code: IT5T5FE1, EE5T6FE1

III B.Tech - I Semester – Regular Examinations - November 2014

MATLAB
(Common for IT, EEE)

Duration: 3 hours

Marks: 5x14=70

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

1. Explain the following MATLAB commands
 - i) f plot 3 M
 - ii) legend 3 M
 - iii) title 4 M
 - iv) meshgrid. 4 M

2. a) What does the input function do? 7 M

- b) How to generate random numbers in MATLAB with the condition that each new number has a minimum difference with all previously generated numbers for that matrix 7 M

3. Briefly explain how “precedence of arithmetic operators” works in MATLAB. 14 M

4. By default, MATLAB prints floating point numbers to four decimal places of accuracy. How would you adjust this option? 14 M

5. a) How can the axes in a two-dimensional plot be constrained to retain the true shape of a figure? 6 M
- b) Explain how a system of m linear equations containing n unknowns can be represented in matrix form. 8 M
6. Write a MATLAB program that computes and plots the relationship between Fahrenheit and Celsius temperature. 14 M
7. How vertical bar plot graph is plotted in MATLAB? Give one example 14 M
8. a) Explain how to save and load the data in MATLAB? 8 M
- b) Write the built in functions for character string manipulation? 6 M