Code: ME6T6FE-C, EC6T6FE-E, IT6T5FE-B, CS6T5FE-E.

III B.Tech-II Semester–Regular/Supplementary Examinations March 2020

MATLAB PROGRAMMING AND APPLICATIONS

(COMMON TO ME , ECE, IT & CSE)

Duration: 3 hours   Max. Marks: 70

PART – A

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

$$11x \, 2 = 22 \text{ M}$$

1.
   a) Name any two applications under MATLAB.
   b) List any two logical operators in MATLAB.
   c) Brief about matrix array operations.
   d) Present the platform dependence commands.
   e) Give the various loop operations in MATLAB.
   f) Specify the role of advanced data objects.
   g) State the procedure of handling graphics.
   h) What is meant by interpolation?
   i) What is handle command in MATLAB?
   j) What is the syntax of fplot?
   k) Write different file types in MATLAB.

PART – B

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

$$3 \times 16 = 48 \text{ M}$$

2. a) Explain various MATLAB Functions for arithmetic
   calculations.   8 M

   b) Using an example, deploy the functions of plot, axis, xlabel
   and ylabel.   8 M

3. Illustrate the matrix index manipulation with an example.

                                                        16 M

4. a) Explain the following language specific feature commands
   with an example
   i) for   ii) while iii) if-else   iv) switch   10 M

   b) Present the operations of ezcontour.   6 M

5. a) Give the functions of curve fitting.   8 M

   b) Write the solution of the following and frame the equation
   in matrix form. $x + 2y = 1$, $3x + 3y = 1$, $3x + 2y = 2$.
                                                        8 M

6. a) Write some of the specialized 2-D plots used in
   MATLAB.   8 M

   b) Explain the following commands related to graphics
   i) gcf   ii) gca   iii) gco   iv) get   8 M