

**M.Tech Odd Semester (CBCS) Exam.,
December—2016**

(Computer Science and Engineering)

MATLAB

(1st Semester)

Course No. : MCSEEL-35

Full Marks : 50

Pass Marks : 15

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

Answer any **five** questions

1. (a) Briefly discuss some basic features of MATLAB. Write down some applications of MATLAB. 3+2=5
- (b) Briefly explain the desktop panels of MATLAB development IDE. 4
- (c) What is the use of special variable 'ans' in MATLAB? 1
2. (a) Discuss some of the commands/functions used for logical operations. 5

- (b) How to generate multidimensional arrays in MATLAB? Show with some examples. 5

3. Briefly explain the three types of loops available in MATLAB with examples. 10

4. (a) Briefly explain global variables in MATLAB with example. 4

- (b) Briefly discuss with example, the procedure to export data to text data files with low-level I/O in MATLAB. 6

5. (a) Briefly explain with examples, the procedures to create rectangular character arrays in MATLAB. 5

- (b) Briefly discuss primary and sub-functions in MATLAB with examples. 5

6. (a) Discuss the basic and commonly used matrix operations in MATLAB with examples. 8

- (b) Show with an example the job of solve function in MATLAB. 2

7. Briefly explain the procedure to plot the graph of a function in MATLAB. 10

(3)

8. (a) How to represent polynomials in MATLAB? Briefly discuss with examples, the procedure to evaluate polynomials in MATLAB. $2+4=6$
- (b) How to find indefinite integral and definite integral using MATLAB? Show with examples. 4
