

CLASS: PG – I.D.C.

15A/ 323

St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 2 Hrs. 20 Mins.

MAXIMUM MARKS: 70

SEM	SET	PAPER CODE	TITLE OF THE PAPER
II	2014	14PMA2401	MATLAB

### SECTION – B

Answer all the questions:

5 x 5 = 25

31. a. Describe the file types of MATLAB.

**OR**

b. Briefly explain the utility matrices in MATLAB with examples.

32. a. Explain the following operations:

(i) Arithmetic operations (ii) Relational operations

**OR**

b. Write a note on eval function.

33. a. How do you compute the eigenvalues and eigenvectors of a matrix in MATLAB?

**OR**

b. Explain the following plotting functions:

(i) ezplot (ii) ezpolar (iii) ezsurf

34. a. Explain the function files in MATLAB.

**OR**

b. Briefly explain the following:

(i) function handle (ii) feval (iii) profiler

35. a. Explain the concept of line command to generate overlay plots.

**OR**

b. Discuss the features of 3-D plots in MATLAB.

### **SECTION – C**

**Answer any THREE questions:**

**3 x 15 = 45**

36. Discuss the three basic windows of MATLAB.

37. Discuss in detail some elementary math functions in MATLAB and their usages.

38. a. Explain the following functions:

(i) Inline functions

(ii) Anonymous functions

b. Write a note on diary in MATLAB.

39. Discuss the process of interpolation in MATLAB.

40. Explain the available 2-D plots in MATLAB with examples. Also, explain their options in detail.

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