S.No.: 165 BATCH: 2017 Reg.No.:

END OF SEMESTER EXAMINATIONS, NOVEMBER - 2018
ADVANCED COMPUTATIONAL PROGRAMMING
SUBJECT CODE: 17P3MA17

MAJOR: M.SC (Mathematics)
TIME : 3 HOURS

SEMESTER : III
MAX.MARKS : 70

Answer ALL Questions:

SECTION - A (5 X 4 = 20)

1. What is MATLAB? Where MATLAB can be applicable?

(OR)

2. Explain about the Built-in functions of MATLAB.

3. Explain the Matrix Manipulations with an example.

(OR)

4. What are the functions used to read text files from a certain format in MATLAB?

5. Sort Note on Break and Continue Commands.

(OR)

6. Write a MATLAB Program to demo the switch case statement.

7. What is Interpolation and Extrapolation in MATLAB? What are their types?

(OR)

8. How can you create and evaluate Polynomials in MATLAB? Explain.

9. Name the Graphics System used in MATLAB.

(OR)

10. Discuss about Symbolic Mathematics.

SECTION - B (5 X 10 = 50)

Answer ALL Questions:

11. Explain the different types of operators used in MATLAB with an example.

(OR)

12. What are the types of files used in MATLAB? Explain.

13. Elucidate Matrix and Array Operations in MATLAB with suitable examples.

(OR)

14. Discuss about Low level input-output functions with an example.

15. What are the Applications of MATLAB? How can you develop and deploy?

(OR)

16. Explain conditional and looping statements with suitable examples.

17. Explain about Polynomial Curve Fitting in MATLAB.

(OR)

18. Write a MATLAB Program to find the roots of the quadratic Polynomial.

19. Demonstrate about various Plots used in MATLAB Graphics.

(OR)

20. How do you solve Ordinary differential Equations (ODE)? Explain with an example.

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