

M.Sc.- I (Mathematics) New CBCS Pattern Semester-II
PSCMTH10D / PSCMTH10D - SCILAB Programming

P. Pages : 2

Time : Three Hours



GUG/W/23/13753

Max. Marks : 100

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- Notes : 1. Solve all **five** questions.
2. All questions carry equal marks.

UNIT – I

1. a) Write a note on history of SCILAB. **10**
b) Explain the features available in SCILAB menu bar. **10**

OR

- c) Write a note on initialization of vectors in SCILAB. **10**
d) Which relational operations on vectors are available in SCILAB? Explain. **10**

UNIT – II

2. a) Write a note on element wise arithmetic operations available in SCILAB for matrices. **10**
b) What are variables? Discuss the rules to construct variable names in SCILAB. **10**

OR

- c) Write a note on input and output in SCILAB. **10**
d) Discuss the concept of while loop. Write a program to find addition of first n natural numbers using while loop. **10**

UNIT – III

3. a) How polynomials can be created in SCILAB? **10**
b) Write a note on polynomial arithmetic in SCILAB. **10**

OR

- c) Discuss any five 2D plotting commands in SCILAB. **10**
d) Write a note on the commands available for plotting graphic primitives in SCILAB. **10**

UNIT – IV

4. a) Write a note on symbolic processing in SCILAB. 10
- b) Discuss the concept of string matching, string concatenation and reversing a string in SCILAB. 10

OR

- c) Discuss basic statistical functions available in SCILAB. 10
- d) Write a note on computation of frequency of values of a matrix or vector. 10
5. a) Write a short note on working directory. 5
- b) What are user defined functions? Explain with example. 5
- c) Write a note on specifiers for line style and color in SCILAB. 5
- d) Write a short note on percentiles. 5
