



- 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) Discuss the mathematical operation available in SCILAB on vectors. **10**

OR

- c) Write a note on elementary mathematical functions in SCILAB. **10**
d) Discuss complex number in the context of SCILAB. **10**

UNIT – II

2. a) Discuss the matrices with various data types and basic arithmetic operations. **10**
b) Discuss the concept of for loop. Write a program to find factorial of a number using for loop. **10**

OR

- c) Which branching statements are available in SCILAB? Explain with example. **10**
d) Write a note on input and output in SCILAB. **10**

UNIT – III

3. a) Write a note on the commands available for plotting graphic primitives in SCILAB. **10**
b) Write a note on specifiers for the line style, marker style and color in SCILAB. **10**

OR

- c) Discuss the polynomial handling operations in SCILAB. **10**
d) How polynomials can be created in SCILAB? **10**

UNIT – IV

4. a) Write a note on creation of a linear combination of arguments using SCILAB function. **10**
b) Write a note on string to ASCII conversion and creation of string of blank characters. **10**

OR

- c) Discuss the application of statistical functions on matrices. **10**
d) Write a note on covariance and variance-covariance matrix. **10**

5. a) Write a note the available trigonometric functions inverse trigonometric functions. **5**
b) Discuss various special function commands on SCILAB. **5**
c) Write a note on plot 2D command in SCILAB. **5**
d) Discuss the concepts of center in SCILAB. **5**
