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SEAT No. :

P-5373

[Total No. of Pages : 2

[6185]-56

F.E. (Insem.)

**PROGRAMMING AND PROBLEM SOLVING**

**(2019 Pattern) (Semester - I) (110005)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates :*

- 1) Solve Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat diagrams must be drawn wherever necessary.

- Q1)** a) Explain different symbols used to represent a flow-chart. [3]
- b) Explain single line and multiline comment statements in python with example. [4]
- c) What is indentation in python? Explain with example. [3]
- d) Write and explain different problem solving steps. [5]

OR

- Q2)** a) Write a pseudo code for swapping of two numbers. [3]
- b) Explain input and output operations in python with example. [4]
- c) Explain the following data types [3]
- i) list
  - ii) tuple
  - iii) string
- d) Explain different logical and membership operators in python. [5]

*P.T.O.*

- Q3)** a) Explain break and continue statement with suitable example. [3]
- b) Explain the following operations of list. [4]
- i) Creating a list
  - ii) Display list
  - iii) Appending
  - iv) Accessing an element.
- c) Explain if..elif..else statement in python. [3]
- d) Write a program to find factorial of a number. [5]

OR

- Q4)** a) Explain while loop with example. [3]
- b) What is dictionary data type? Explain any 3 operations of dictionary data type. [4]
- c) Explain use of range() function in for loop with suitable example. [3]
- d) Write a program to check whether a number entered by user is positive, negative or zero. [5]

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