[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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