Total No. of Questions : 4]

SEAT No. :

PC379

[Total No. of Pages : 1

[6358]-110

F.E. (Insem)

PROGRAMMING AND PROBLEM SOLVING

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

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates:

1) ***Slove Q1 or Q2, Q3 or Q4.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***

Q1) a) What are the different types of problems? Explain in detail. **[4]**

b) List down types of operators in Python. Explain relational operators. **[5]**

c) Explain flow-chart and algorithm with example. **[6]**

OR

Q2) a) Explain following terms with suitable examples. **[4]**

i) Indentation

ii) Identifiers

b) Write a program to swap two numbers. **[5]**

c) Explain following data types in Python with example. **[6]**

i) Numeric

ii) Tuple

iii) Dictionary

Q3) a) Describe the following terms with examples (any two) **[4]**

i) Break

ii) Continue

iii) Pass

iv) Range

b) Write a program to test whether a number entered by the user is positive, negative or zero. **[5]**

c) Explain following selection/decision making statements in Python. **[6]**

i) If statement.

ii) If...else statement.

iii) If..elif..else statement.

OR

Q4) a) Explain for loop with flow chart. **[4]**

b) What is a list? Explain any three operations of list. **[5]**

c) Write a program to generate a Fibonacci series of ‘n’ numbers. **[6]**

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