

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) *Solve 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]

