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SEAT No. :

[Total No. of Pages : 2

P6

FE/INSEM/APR-6

F.E. (Semester - II)

110005 : PROGRAMMING AND PROBLEM SOLVING

(2019 Pattern)

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) What is a problem? Explain six problem solving steps. [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) Comment
 - ii) Reserve Words
- b) Write a program to swap two numbers. [5]
- c) Explain any six features of Python programming. [6]

- 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..else..else statement

P.T.O.

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]

