Total No. of Questions : 4]

SEAT No. :

PD7

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[6408] 107
F.E. (Insem)
PROGRAMMING AND PROBLEM SOLVING
(2019 Pattern) (Semester -II) (110005) (Credit System)

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.***

Q1) a) What are different types of problems? Explain in brief. **[3]**

b) Explain pseudo code with example. **[4]**

c) Explain different arithmetic operators in Python. **[3]**

d) Write and Explain any five features of python. **[5]**

OR

Q2) a) Explain top down design approach. **[3]**

b) Define an algorithm. What are the characteristics of an algorithm? **[4]**

c) What is an identifier? Explain different rules of naming an identifier. **[3]**

d) Explain different data types in Python. **[5]**

Q3) a) Explain if.. else statement syntax with suitable example. **[3]**

b) Differentiate between list and tuple data type. **[4]**

c) Explain else statement used with loops in python. **[3]**

d) Write a program to find largest of three numbers **[5]**

OR

Q4) a) Explain the use of continue statement in a loop with suitable example. **[3]**

b) Write a short note on dictionary data type. **[4]**

c) Explain while loop with suitable example. **[3]**

d) Write a program to find factorial of a number. **[5]**