Total No. of Questions : 4]

SEAT No. :

PB6

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[6267]-6
F.E. (All Branches) (Insem)
PROGRAMMING AND PROBLEM SOLVING
(2019 Pattern) (Semester - II) (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) What are different types of problems? Explain in brief. **[3]**

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

c) Explain different arithmetic operator in python. **[3]**

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

OR

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

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

c) Define a variable and identifier with suitable example. **[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 while loop in phython. **[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]**