Total No. of Questions : 4]

SEAT No. :

P1274

[Total No. of Pages : 2

## OCT/FE/Insem-7 F.E. (Semester - I) PROGRAMMING AND PROBLEM SOLVING (2019 Pattern)

Time : 1 Hour]		Max. Marks : 30	
Instructions to the candidates:			
<i>1</i> )	Solve Q1 or Q2, Q3 or Q4.	$\sim$	
2)	Neat Diagrams must be drawn wherever necessary.	U	
<i>Q1</i> ) a)	What are identifiers? List the rules to name an identifier.	[3]	
b)	Explain different data types supported by Python.	[5]	
c)	What is a problem? List down steps in problem solving.	[4]	
d)	Write an Algorithm to find sum of 'n' natural numbers.	[3]	
	OR OR		
<b>Q2</b> ) a)	Explain the use of Indentation in Python.	[3]	
b)	What is an operator? Enlist various types of operators.	[5]	
c)	What is modularization? Explain top down design approach.	[4]	
d)	Write an algorithm to swap two numbers.	[3]	
<b>Q3</b> ) a)	Explain selection/conditional statements in Python.	[4]	
b)	Explain while loop with flowchart.	[3]	
c)	Write a program in Python to find whether gives is even or odd.	[3]	
d)	What is difference between 'break' and 'continue' statement in Pyt	hon?	
5	Explain with example.	[5]	
	OR		

- Q4) a) What is dictionary? How to add and remove elements in dictionary? [4]
  - b) What is a list? Explain accessing and removing of elements from list with example. [3]
  - c) Explain for loop with flowchart. [3]
  - d) Write a program to print the following pattern. [5]

245.

FE/Insem-7