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

	2:1H		: 30
Instr		ns to the candidates:	
	<i>1</i>)	Solve Q1 or Q2, Q3 or Q4.	
	2)	Neat Diagrams must be drawn wherever necessary.	
Q 1)	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 O	
Q 2)	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]
Q 3)	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 Pyth Explain with example.	on? [5]
		OR	
		P.7	T.O.

What is dictionary? How to add and remove elements in dictionary? [4] **Q4**) a) What is a list? Explain accessing and removing of elements from list with b) example. [3] Explain for loop with flowehart. c) [3] Write a program to print the following pattern. d) [5] FE/Insem-7