SYIT/SEM III/REG/Python Programming

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Time: 2½ hrs.		Marks:75
Note		,/3
	2. Draw neat diagrams wherever necessary.	
	3. Figures to the right indicate full marks.	
Q.1		//-
C	Answer the following (any Three) (a) Describe for and while loop with example.	(15
	(b) Write a python program to print the following pattern:	
	1 1 1 1	
	2222	
	3 3 3	
	4.4	
	5 (c) Explain Section C. (d)	
	(c) Explain features of python.	
	(d) Differentiate between formal and natural languages.	
	(e) What are variables? What are the rules used for naming variable names.(f) Explain type conversion with example.	
2.2		
	Answer the following (any Three) (a) Explain recursion with example.	(15
	(b) Explain string slices with example.	
	(c) Write a python program to reverse a string.	
	(d) Describe stack diagram with example.	
	(e) Explain function call in python.	
	(f) Describe return statement.	
Q.3	Answer the following (any Three)	
	(a) Explain basic tuple operation with example.	(15
	(b) Explain any five list methods with example.	
	(c) Write a Python program to read last n lines of a file.	
	(d) Write steps for reading a text file in Python with example.	
	(e) What is exception? How to handle exception?	
	(f) Explain directories in python.	14
Q.4	Answer the following (any Three)	/4 =
٠	(a) Explain inheritance type with example.	(15
	(b) What is regular expression? Also explain metacharacters in regular expression.	
	(c) What is the principle of object-oriented programming in python?	
	(d) Explain math module.	
	(e) Write a program in python to design a class that store the information of employee an	d
	display the same.	-
	(f) Write a short note on class and object.	
Q.5	Answer the following (any Three)	(15
	(a) What is Layout management? What are geometry managers in python.	\
	(b) Write a python program to display gender using tkinter.	
•	(c) Explain following widget with suitable example.	
	1)Listbox 2)Menu 3)Message 4)Radiobutton 5)text	
	(d) Write a note on update and delete table using python.	
	(e) How to connect to mysql database in python.	
	(f) Explain following widget with suitable example.	
	1) Button 2)Canvas 3)Checkbutton 4)Entry 5)Label	
	XX	