CBCS SCHEME

7 7 7 7		18MCA32
Third	Semester MCA Degree Examination, July/Augus Programming using Python	t 2021
Time: 3 hrs.		ax. Marks:100
MANGALORE	Note: Answer any FIVE full questions.	
1 a. List out to with example	he rules for declaring a variable in Python. Demonstrate any 3 unple.	ses of a variable, (06 Marks)
	output of the following and justify your answers.	
i) -9 % ii) 9% -		
iii) 4+3		
iv) $5-2$		
v) ((((4	** 3))))	
	−70) *10/5	(06 Marks)
c. Write a F from the	ython script to find the average of best 2 marks from 3 test marks user.	(08 Marks)
2 a. Discuss of	on the memory model for storing a variable in python. Explain with	n example.
b. Discuss of	on the print function for displaying information is Python. now to define and call a user defined function in python, using an e	(06 Marks) (08 Marks) example.
		(06 Marks)
b. What are example.		
c. Explain i	now to use special characters in strings with suitable example for e	ach (06 Mayles)
c. Dapie		ach. (06 Marks)
1		
4 a. Discuss of	on the significance of docstrings. module. Explain how to create a module and make use of it is pyth	(04 Marks)
4 a. Discuss of b. Define a		(04 Marks) non programs.
4 a. Discuss of b. Define a c. Give the i) print (ii) >>> a	module. Explain how to create a module and make use of it is pythoutput of the following; with reasons one two three four') a = "'Hai, Hello How are you"	(04 Marks) non programs.
4 a. Discuss of b. Define a c. Give the i) print ('ii) >>> a	module. Explain how to create a module and make use of it is pythoutput of the following; with reasons one two three four') a = "'Hai, Hello How are you"	(04 Marks) non programs.
4 a. Discuss of b. Define a c. Give the i) print ('ii) >>> a iii) >>> a	module. Explain how to create a module and make use of it is pythoutput of the following; with reasons one\t two\n three\t four') a = "'Hai, Hello How are you" a-split(',')	(04 Marks) non programs.
4 a. Discuss of b. Define a c. Give the i) print ('ii) >>> a iii) >>> a iii) >>> a	module. Explain how to create a module and make use of it is pythoutput of the following; with reasons one two three four') a = "'Hai, Hello How are you"	(04 Marks) non programs.

Explain the working of for and while loop in Python with suitable examples. (08 Marks) 5 b. Give the expressions for performing the following operations on the list $\ell = [1, 2, 87, 23, 56, 89]$ using: i) Slicing ii) Negative indexing. Reversing the list Print first element1 from the list ii) iii) Print the last element 89, from the list (08 Marks) iv) Print alternate elements from the list starting from 2. Explain any one method of processing lists using for loop with an example. (04 Marks) Write a Python script to insert an element into a sorted list. (06 Marks) What do you mean by aliasing a list? Explain with an example. (06 Marks) Ъ. Demonstrate the use of break and continue statements with a code snippet. (08 Marks) Discuss on the different methods of opening a file is python, with syntax and example. 7 (06 Marks) (05 Marks) Write short notes on the different file types supported by python. What is a dictionary? Write a python script to invert a dictionary that contains duplicate (09 Marks) values. What is a tuple? Explain the following operations on a tuple with example for each: Sum of 2 tuples Assignment of tuples to variables iii) Slicing a tuple iv) Comparison of tuples. (10 Marks) b. Write a python script to read the contents of a file and display the contents in the following format. Input file Output Good Morning Line 1: Good Morning How are you Line 2: How are you Welcome Line 3: Welcome (06 Marks) Compare the collection objects lists and strings. (04 Marks) EMRIT LIBRARY BANGALORE - 560 037 Discuss on object class and isinstance() method with an example. (05 Marks) Write short notes on the various phases involved in object oriented programming. (06 Marks) What is inheritance? Explain how python supports inheritance with an example. (09 Marks) Discuss on the different ways of managing the layout of wedgets in a tkinter GUI program. 10 (10 Marks) Explain any 10 GUI widgets with respect to tkinter. (10 Marks)