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Seat No.:	Enrolment No.
Seat No	Emoment No.

GUJARAT TECHNOLOGICAL UNIVERSITY MCA INTEGRATED SEMESTER-V • EXAMINATION – SUMMER 2017

Su	bject	Code:4450601 Date: 27/04/2017	
Su	bject	Name:Python (Py)	
		2:30 pm to 05:00 pm - Total Marks: 70	
Ins	tructio		
		Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a)	Fill in the blanks	07
		1) "" (Triple Quotes) in python are also known as which is	
		generally used to write initial description of function.	
		2) In Python, method is used to overload "+" arithmetic operator.	
		3)searching method works only with sorted data items.4) List isobject of python.	
		5) function of PyLab is used to set the label of "x" coordinates	
		while drawing graph.	
		6) A type of testing where tester is aware about the internal structure of the	
		program is known as	
		7) If a = "Hello How Are You", then print(x[6:]) will print	
	(1.)	C EDITE / EAL CE	
	(b)	State TRUE / FALSE. 1) In pathon "clobals" becaused to attilize clobal variables incide the	07
		1) In python "globals" keyword is used to utilize global variables inside the function.	
		2) In Python, if x="hi" and y="hi there", the print(y in x) will return FALSE.	
		3) While doing exception handling in Python "else" block is executed only if	
		no exception is raised.	
		4) When all the data attributes of a class are associated with the object of a	
		class, they are known as instance variables.	
		5) Persistent bug occurs every time the program is run with the same inputs.	
		6) The program which is written with the intention of covert bug and intermittent bug is known as Defensive Programming.	
		intermittent bug is known as Defensive Programming. 7) str_input() function is used to input string and input() function is used to	
		input integer variable in python.	
0.4	()		
Q.2	(a)	What is the difference between local and global variable. Explain the use of	07
	(b)	global variable inside function of python with example. What do you mean by File Handle? Explain different modes of opening a file	07
	(0)	in python.	07
		OR	
	(b)	Explain following functions of python used for file handling.	07
		open(), read(), readline(), readlines(), write()	
Q.3	(a)	Explain features of Python in brief.	07
((b)	What do you mean by Debugging? Explain the difference between Persistent	07
	. ,	and Intermittent Bug.	
		OR	
Q.3	(a)	Explain Dictionary object in python.	07
	(b)	What do you mean by Debugging? Explain the difference between Overt and	07
		Covert Bug.	
Q.4	(a)	Write a python program to input details of 10 students (rollno, name, age) and	07

		print after sorting as per their age.	
	(b)	Explain different components of Exception Handling in Python with an	07
		example.	
		OR	
0.4	(a)	A company has started its business since last 5 years with investment of Rs.	07
•	()	1,00,00,000. The profit ratio of all five year is given as 5%, 8%, -3%, 10% and	
		11% respectively. Write a program to prepare PyLab graph to show profit.	
			0.5
	(b)	What is HashTable? Explain the use of HashTable with a sample code.	07
Q.5	(a)	Explain merge sort with an example.	07
_	(b)	What is KnapSack problem? Explain in detail with an example.	07
	(,,,	OR	
0.5	(a)		07
Q.5	(a)	What do you mean by Operator Overloading? List and Explain various	U/
		methods which are used for operator overloading in Python.	
	(b)	What is Module in Python? Explain how to create and utilize module in	07
		Python.	
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