Seat No.:	Enrolment No.
5cat 110	Lindinent 140

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- V• EXAMINATION - WINTER 2015

	•	Code:4450601 Date: 30/11/201 Name: Python	15
Ti	me: 1	0:30 am to 01:00 pm Total Marks: '	70
Ins	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Do as directed	07
		1) Lists are mutable objects (True / False)	
		2) Which of the following is used as a constructor in Python class?a) init()b) init(self)c)init(self)d)init()	
		 3) If str="Gujarat Technological University", what will be the output of print(x[-10:]? a) "Gujarat Te" b) "Gujarat Technological". c) "University" d) "U" 	
		4) In Glass Box Testing, tester is aware about the structure. (True / False)	
		5) Python does not provide interface with Databases (TRUE / FALSE)	
		6) is a mutable sequence object of python which utilizes Hash Table technique to search the data with key	
		7) What will be the output of following line? x = ["GTU", "Python", 10, 2015] print("gtu" in x)	
		a) True b) False c) GTU d) Error	
	(b)	Explain looping statements available in Python. Specify examples of while and for loop	07
Q.2	(a) (b)	Briefly describe functions in Python. Briefly explain file handling in python with open(), close(), write() and readLines() example	07 07
	(b)	OR Briefly describe Modules in Python.	07
Q.3	(a) (b)	What do you mean by Defensive Programming? Explain briefly Explain the use of Global and Non-Local variables with example OR	
Q.3	(a) (b)	What do you mean by KnapSack problem? Explain with example Explain the difference between Black Box Testing and Glass Box Testing 0'	
Q.4	(a) (b)	Briefly explain List and Tuple What do you mean by Exception ? Explain how exception handling is done in Python. Explain each part of exception handling OR	07 07

Q.4	(a) (b)	What do you mean by Assertions ? Explain with example Explain Binary Search with example	07 07
Q.5	(a) (b)	Explain Hash Tables in Python What do you mean by Dynamic Programming? Explain using Fibonacci Recursive Function.	07 07
		OR	
Q.5	(a)	Describe Magic Methods of Python which are used for overriding	07
	(b)	Write a Python program using PyLab to display strength of students in a college for 5 years. First year strength was 3000 which increased by 5% every year. Display graph accordingly.	07
