Seat No.: _____

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- III EXAMINATION - WINTER - 2017

Subject Code:3630006		t Code:3630006 Date:04/01/20	Date:04/01/2018	
Subject Name: Programming with Python Time: 10.30 AM TO 01.00 PM Total I			Marks: 70	
	tructio	ons: Attempt all questions. Make suitable assumptions wherever necessary.	,. 70	
Q.1	(a) (b)	Answer the following questions (Any 7) 1. Mutability 2. Cloning 3. Debugging 4. Lambda Abstraction 5. Decomposition 6. readline() 7. Hash table 8. Memoization 9. Encapsulation Explain the Data Types available in Python.	07	
Q.2	(a) (b)	Explain Looping statements in Python. Give examples of while and for loop. Explain the use of Global and Non-Local variables with example. OR	07 07	
	(b)	Differentiate List and Tuple.	07	
Q.3	(a) (b)	What is the use of Modules in Python? What do you mean by Testing? Explain differences Between Black-Box & Glass-box testing. OR	07 07	
Q.3	(a) (b)	Briefly Explain Defensive Programming. What is Exception? Explain Exception Handling in Python.	07 07	
Q.4	(a) (b)	Explain how to implement Binary Search with example. What is Inheritance? Explain multiple level inheritances with example. OR	07 07	
Q.4	(a) (b)	Describe Magic Methods of Python which are used for overriding. What is the use of Assertions in Python? Explain with example.	07 07	
Q.5	(a) (b)	Explain KnapSack problem with example. What is Mortgages? Explain various methods of Mortgages. OR	07 07	
Q.5	(a)	What do you mean by Dynamic Programming? Explain using Fibonacci Recursive Function.	07	
	(b)	Explain the use of PyLab in Python. Explain use of plot (), show () and title () functions of PyLab.	07	