

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated - SEMESTER– V• EXAMINATION – WINTER 2016

Subject Code: 4450601**Date: 20/10/2016****Subject Name: Python****Time: 02:30 pm – 05:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (A)** Explain the following terms: **07**
1. Recursion
 2. Debugging
 3. Mutability
 4. PyLab
 5. Iteration
 6. Abstract Data types
 7. Encapsulation
- (B)** Describe Magic Methods of Python which are used for overriding **07**
- Q.2 (A)** Explain looping statements available in Python with examples. **07**
- (B)** What do you mean by Defensive Programming? Explain briefly **07**
- OR**
- (B)** Explain Binary Search with example **07**
- Q.3 (A)** Explain inheritance and also explain multiple level inheritances with example. **07**
- (B)** What is Mortgages? Explain various methods of Mortgages. **07**
- OR**
- Q.3 (A)** Explain Modules in Python. **07**
- (B)** Explain Hash Tables in Python **07**
- Q.4 (A)** What is Testing? Explain differences Between Black-Box & Glass-box testing. **07**
- (B)** Write a short note:
1. Explain Exceptions with example. **03**
 2. Explain Debugging with designing and experiments. **04**
- OR**
- Q.4 (A)** Explain functions in Python. **07**
- (B)** Write a short note:
1. Explain file handling in python **03**
 2. Explain structured types with types and details. **04**
- Q.5 (A)** Write a short note on dynamic programming with knapsack problem. **07**
- (B)** Explain the use of Global and Non-Local variables with example **07**
- OR**
- Q.5 (A)** What do you mean by Assertions? Explain with example **07**
- (B)** Explain List and Tuple in Python. **07**
