

R09

Code No: 09A40503

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B.Tech II Year II Semester Examinations, June-2014

OBJECT ORIENTED PROGRAMMING

(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

**Answer any five questions
All questions carry equal marks**

- 1.a) Write in detail on interfaces and abstract classes in Java.
- b) Write in detail on the features of OO programming.
- 2.a) Write a static recursive method for returning the sum of digits of an integer.
- b) Write in detail on methods of String class.
- 3.a) Write in detail on member access rules.
- b) Write a Java program to print the sum of the numbers that are supplied as command line arguments.
- 4.a) Write a Java program to reverse the contents of a text file.
- b) Write briefly on Reader and Writer classes.
- 5.a) Write a Java program to read a text file and print the number of unique words.
- b) Write briefly on Exception handling.
- 6.a) Write in detail on annotations with examples.
- b) Write a Java program to create multiple threads.
7. Write a Java program to implement an AWT based calculator with basic operations.
- 8.a) Write briefly on event sources, event classes and event listeners in Java.
- b) Write briefly on Adapter classes.
