

R09

Code No: R09220503

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B.Tech II Year II Semester Examinations, May-2013

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 briefly on the features of Java programming language.
- b) Write a Java program to print the sum of positive numbers and the sum of negative numbers of the command line arguments. [6+9]
- 2.a) Explain with an example on inner classes and nested classes.
- b) Write in detail on the usage of static and final keywords in Java. [7+8]
- 3.a) Write in detail on interfaces and abstract classes in Java language. Give any three interfaces and abstract classes from Java.
- b) Explain with example how new classes can be derived from existing class. [7+8]
- 4.a) Explain the concept of a package and how new packages can be created and used in other classes in Java.
- b) Write briefly on any three classes from the packages java.io and java.util. [7+8]
- 5.a) Explain how a new Exception class can be created and used in another Java program.
- b) Write briefly on multithreaded programming and interthread communication in Java. [7+8]
- 6.a) Write in detail with a sample program on event handling in Java.
- b) Write briefly on Adapter classes and Listener classes in Java. [8+7]
7. Write a Java program for implementing a basic calculator using Swings. [15]
8. Write a Java program to copy a file in the reverse into another file. The first character must become the last and the last character must become the first. [15]

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