JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD
B.Tech II Year II Semester Examinations, December-2014/January-2015
OBJECT ORIENTED PROGRAMMING
(Common to CSE, IT)

Time: 3 hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks

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1.a) What are the advantages and disadvantages of object oriented programming?
  b) Distinguish between polymorphism and inheritance.

2.a) Write a Java program for sorting a list of names in descending order.
  b) What are the uses of final keyword in Java?

3.a) Explain the uses of super key word with an example.
  b) Explain the dynamic method dispatch mechanism with an example.

4.a) Discuss the various levels of access protection provided for methods and instance
     variables in Java.
  b) What are the main differences between abstract classes and interfaces in Java?

5. a) Discuss the life cycle of a thread in Java.
   b) Write a Java program that correctly implements the Producer-Consumer problem
      using the concept of interthread communication.

6. a) Write a Java program for handling mouse events using adapter classes.
   b) What are the main differences between GridLayout and GridBagLayout?

7. a) Give the complete life cycle of an applet.
   b) Explain with a diagram the MVC architecture.
   c) How can the nodes be added and removed in JTree?

8. a) Discuss with a diagram the exception class hierarchy in Java.
   b) Explain with an example how user can create his/her own exceptions in Java?

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