Code No: 09A60403

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD
B. Tech III Year II Semester Examinations, May – 2013
Object Oriented Programming
(Common to ECE, ETM)

Time: 3 hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.a)   Compare Procedure Oriented and Object Oriented Programming methods, listing advantages and disadvantages of each method.
   b)   Distinguish between Inheritance and Polymorphism.   [15]

2.a)   Write a recursive function in Java to find the factorial of a given integer.
   b)   Write a Java program to check whether an integer is prime or not. Read the integer from the key board.   [15]

3.a)   Discuss with examples the various levels of access protection available for packages.
   b)   What are the uses of final key word in Java?   [15]

4.a)   Write a Java program that compares two strings and returns the result. The method should throw an exception if any of the strings contain the letter 'x' in it.
   b)   What are the main differences between abstract classes and interfaces in Java?
                                                                                     [15]
5.a)   What are the benefits of exception handling in Java?
   b)   Write a Java program that illustrates how user can create his/her own exceptions.
                                                                                     [15]

6.a)   What are the differences between thread based multitasking and process based multitasking?
   b)   Write a Java program that illustrates the creation and running of two threads by extending the Thread class.   [15]

7.a)   Write a Java program for handling mouse events using adapter classes.
   b)   How are the elements of BorderLayout organized in Java?   [15]

8.a)   Explain with a diagram the MVC architecture.
   b)   What is the difference between an uneditable and an editable combo box?
         How do you retrieve the selected item from a JComboBox component?
         How do you get the index of the selected item?   [15]

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