Code.No: 07A40591     **R07**     **SET-2**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**
**II B.TECH II SEM–REGULAR/SUPPLEMENTARY EXAMINATIONS MAY - 2010**
**OBJECT ORIENTED PROGRAMMING**
**(COMMON TO CSE, CHEM, IT, CSS, ECC)**

Time: 3hours                                        Max.Marks:80

**Answer any FIVE questions**
**All questions carry equal marks**
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1.a) Explain the need for object oriented programming paradigm.
 b) What are the components of Java Architecture? Explain in detail?
 c) Describe with a flow chart how various tools are used in application development.
                                                     [4+8+4]


2.a) Write a program to solve quadratic equations.
 b) What is type casting? What are the rules followed for type casting?
 c) Explain the following JAVA key words : (i) static    (ii) final
                                                     [8+4+4]

3.a) Differentiate between method overloading and method overriding.
 b) Write a program to illustrate the dynamic method dispatch.          [8+8]

4.a) Compare and contrast between class and an interface.
 b) Write a program to implement a class Teacher contains two fields Name and Qualification. Extend the class to Department, it contains Dept. No and Dept. Name. An Interface named as College it contains one field Name of the College. Using the above classes and Interface get the appropriate information and display it.    [8+8]

5.a) Explain how exception handling mechanism can be used in a program.
 b) Write a Java Program to implement Runnable class to create a thread.     [8+8]

6. Write a program to display multiple lines of text in a window. It also displays multiple sentences on the same line.                               [16]

7.a) What are the limitations of AWT? How did they overcome in Swing?
 b) Explain the life cycle of an Applet.                                [8+8]

8.a) Write a Java Program for Simple chatting using TCP.
 b) Explain about the Factory methods.                                 [10+6]

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