

III B.Tech II Semester(R05) Supplementary Examinations, May 2010  
OOPS THROUGH JAVA  
(Electronics & Communication Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

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1. (a) List at least ten major differences between C and Java  
(b) Compare in terms of their functions, the following pairs of statements:
  - i. while and do?.while
  - ii. while and for(c) What is an empty statement? Explain its usefulness. [4+4+4+4]
2. (a) What is the difference between equality of objects and equality of objects and equality of references that refer to them?  
(b) What is the difference between a public member and a private member of a class?  
(c) write an application that computes the value of ex by using the formula:  
$$e^x = 1 + x/1! + x^2/2! + x^3/3! + \dots$$
 [4+4+8]
3. What is inheritance? Explain the inheritance mechanism in java in detail with suitable examples? [16]
4. Write a program to create an interface containing a static inner class. Implement this interface and create an instance of the inner class. [16]
5. (a) Explain throws statement in Java with the help of an example program.  
(b) What is the difference between throw and throws statement. [8+8]
6. What are the methods supported by KeyListener interface and MouseListener interface. Explain each of them with examples. [8+8]
7. (a) What is the difference between applet and application program? Give their structures.  
(b) Create an applet to obtain the list of fonts available with the current java working environment. [8+8]
8. Discuss various classes of java.util package. [16]

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