

**II B.Tech II Semester Regular Examinations, Apr/May 2008  
OOP THROUGH JAVA**

**( Common to Electronics & Communication Engineering, Computer Science & Engineering, Information Technology, Computer Science & Systems Engineering, Electronics & Telematics and Electronics & Computer Engineering)**

**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions  
All Questions carry equal marks**

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1. (a) Describe the genesis of java. Also write brief overview of java.  
(b) Write a program to convert the given temperature in Fahrenheit to Celsius using the following conversion formula  $C = (F - 32)/1.8$  And display the values in a tabular form. [8+8]
2. (a) What is the purpose of using a method? How do you declare a method? How do you invoke a method?  
(b) What is method overloading? Can you define two methods that have same name but different parameter types? Can you define two methods in a class that have identical method names and parameter profile with different return value types or different modifier ? [8+8]
3. Add a new method in the base class of Shapes.java that prints a message, but don't override it in the derived classes. Explain what happens. Now override it in one of the derived classes but not the others, and Explain what happens. Finally, override it in all the derived classes, Explain in detail about each situation. [16]
4. (a) What is a package? How do we design a package?  
(b) How do we add a class or interface to a package? [8+8]
5. (a) Define multithreading. Give an example of an application that needs multithreading.  
(b) How multithreading in single processor system is different from multithreading in multiprocessor system. Explain. [6+10]
6. Write a java program which creates human face. [16]
7. What are various JFC containers? List them according to their functionality. Explain each of them with examples. [16]
8. (a) Discuss briefly about the following: TCP, UDP, URL  
(b) What is InetAddress? How to create an InetAddress? What is its use? [8+8]

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