

**II B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010**  
**OBJECT ORIENTED PROGRAMMING**  
**(METALLURGY AND MATERIAL TECHNOLOGY)**

Time: 3hours

Max.Marks:80

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

- - -

- 1.a) What is byte code? Explain how platform independence is achieved in Java?  
 b) List all primitive data types, sizes and the valid values they accept?  
 c) What is wrong with the following program? Specify two different ways to get the correct result? [5+5+6]  

```

public class Example {
    public static void main(String[] args) {
        byte a, b, c;
        a = 25;
        b = 2;
        c = a * b;
        System.out.println(c);
    }
}

```
- 2.a) Write the difference between instance and class variables with a simple example program.  
 b) What do you mean by default constructor? Can we instantiate a class without any constructor? Explain?  
 c) What are the requirements to overload two methods? Explain with a java program to illustrate overloaded constructor and copy constructor? [5+4+7]
- 3.a) Difference between Static Binding and Dynamic Binding with example?  
 b) Explain at least two different uses of “super” in the java programs with an illustrative java example?  
 c) What is the significance of this keyword? How one can use this in static methods? [4+8+4]
- 4.a) What is an exception? Difference between checked and runtime exceptions?  
 b) Illustrate with a single program the two different ways of creating threads? [4+12]
5. List different events, the event sources, the event listeners along with the name of the method in which the code to handle the event should be written in AWT? [16]
- 6.a) What is a package? How a package can be created? How to access the individual and all the classes in a package? Illustrate with a java program?  
 b) What is an interface? Can we declare variable inside an interface? Can one interface extend another interface? [10+6]
- 7.a) What is the difference between an application and an applet?  
 b) Write a Java program that allows the user to accept 2 end points (using mouse) and draws a rectangle between 2 points. (Use AWT ‘frame’ class and mouse listeners). [4+12]
- 8.a) What is a URL connection? Write a Java program to explain the processes of reading from and writing to a URL?  
 b) Explain two situations when String Buffer can be used for string handling?  
 c) How one can split the string “Jawaharlal Nehru Technological University, Hyderabad” to six words of “Jawaharlal”, “Nehru”, “Technological”, “University”, “,” and “Hyderabad”? Write the complete program? [5+4+7]

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Code.No: 07A31801

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SET-4

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