

**BACHELOR IN COMPUTER
APPLICATIONS****Term-End Examination****December, 2007****CS-74 : INTRODUCTION TO INTERNET
PROGRAMMING***Time : 3 hours**Maximum Marks : 75***Note :**

- (i) Question number 1 is **compulsory**.
- (ii) Attempt any **three** questions from the rest.
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1. (a) What is byte code in java ? Explain. 4
- (b) What are the differences between abstract classes and interfaces in java ? Explain. 6
- (c) What are the native methods in java ? Explain. 4
- (d) How does repaint() method work for the applet ? 5

- (e) Find the error(s) if any. Also correct the error(s) and give the output. 4

```
Class Scope { int y = 10;
              { int x = 5;
                system.out.println("x="+x);
                system.out.println("y="+y);
                { int x = 10;
                  system.out.println("x="+x);
                  system.out.println("y="+y);
                }
              }
            }
```

- (f) What are the command line arguments in java ? Explain with example. 5
- (g) What is this pointer ? Explain. 2
2. (a) Write a program to print all the contents of a text file on screen. Name of the file is entered by the user. 7
- (b) What is the difference between 'run-time and compile-time polymorphism ? Explain with examples. 4+4
3. (a) Write a Java program to display a button labelled "IGNOU". 6
- (b) What is exception handling in java ? What is the advantage of finally block ? Explain. 7

```

(c) package p1;
    public class X {
        int i = 10;
        public int j = 5;
        protected int k = 7;
        private int w = 2;
    }

```

If there is another package called p2, what are the variables of class X that can be accessed in a class in p2 ?

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4. (a) What are the thread priorities in java ? Explain with the help of a suitable example. 7
- (b) What is NumberFormatException() in java ? When is it used ? Explain with example. 5
- (c) What are the following : 3
- (i) final class
 - (ii) final variable
 - (iii) final method
5. (a) How does one use multiple inheritance in java ? Explain with example. 8
- (b) What is a toString() function in java ? Explain with example. 4
- (c) What is static data in a class ? Explain. 3

