

**BACHELOR IN COMPUTER
APPLICATIONS****Term-End Examination****June, 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.
 - (iii) Use Java, wherever necessary.
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1. (a) Write any four differences between a Java Applet and a Java Application. Also, write any two common properties of them. Explain through an example for each. 9
- (b) Indicate the name, type, size and range of values of any four primitive data types in Java. 8

- (c) Write any three advantages of multi-threaded programming. 3
- (d) Write a program in Java for I/O operations using `BufferedInputStream` and `BufferedOutputStream`. Define the problem on your own. 10
2. (a) What is meant by Java Virtual Machine ? Explain. 3
- (b) Explain any six bitwise operators of Java. Also, demonstrate each operator with an example. 12
3. (a) Write a program in Java that accepts the name of a text file as input and prints the content of that file to standard output. 5
- (b) Explain the architecture of a Java Applet with the help of a figure. 5
- (c) What is the default layout manager in Java ? Explain it. 5
4. (a) Explain the *extends* keyword with an example. 5
- (b) What is an exception ? How will you handle them in Java programs ? 5
- (c) How can a package be created in Java ? Give an example. 5

5. (a) Do you agree with the statement that *any Java program is 100% platform independent* ? Justify your answer. 5
- (b) Explain the three categories of an Event. 6
- (c) Write a program in Java that accepts a list of strings as input and prints all those strings to standard output which consist of all vowels in them. 4

