

05079
2014

BACHELOR OF COMPUTER APPLICATIONS

(PRE - REVISED)

Term-End Examination

June, 2014

**CS- 74 : INTRODUCTION TO INTERNET
PROGRAMMING**

Time : 2 hours

Maximum Marks : 60

Note : Question No. 1 is compulsory. Attempt any three questions from the rest. Use Java programming language in your answer.

1. (a) What is object oriented programming ? 10
Explain the concept of reusability by creating an Account class and deriving Saving_Account and Current_Account classes from it. Use appropriate access specifiers, data members and member functions in your explanation.
- (b) What is interface in Java ? Explain need of interface with the help of an example. 5
- (c) What is a stream ? Explain difference between Byte Stream and Character Stream. 6
- (d) What is multithreading ? Explain different states of a thread. Write a Java program using multithreading to create two threads which display numbers 1 - 10. 9

2. (a) Write a Java program to display the following pattern for a given number n : 6
 Example : for n=5
 1
 2 2
 3 3 3
 4 4 4 4
 5 5 5 5 5
- (b) Explain concept of inner class with the help of an example. 4
3. (a) Write a Java program to count the number of words and lines in a file. The program should take the name of the file at command line. 6
- (b) What is exception ? Explain with an example, how Java handle Arithmetic-Exceptions. 4
4. (a) Write a Java applet to take your name, address, contact number as input and display it in 'blue color'. 5
- (b) What is string class ? How it is different from StringBuffer Class ? 5
5. Explain the following with respect to Java programming with the help of an example. 2x5=10
- (a) Abstract Class
 - (b) Finally
 - (c) Package
 - (d) Layout Manager
 - (e) JVM
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