

**BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Pre-Revised)**

Term-End Examination

December, 2016

00655

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

Time : 2 hours

Maximum Marks : 60

Note : *Question number 1 is compulsory. Attempt any three questions from the rest. Use Java programming language in your answers.*

1. (a) Does Java support multiple inheritance ?
Can you use interfaces to achieve multiple inheritance in Java ? Explain with an example. 5
- (b) Write a program that draws a line, a colour-filled rectangle and a colour-filled circle using an Applet. 5
- (c) What is a Stream ? Write a Java program using FileReader and PrintWriter classes to read from a file and write it out again. 6

- (d) Bring out the difference between a “while” and a “do...while” loop with the help of example code fragments. 5
- (e) What is a Thread in Java ? When is it used ? List any three methods in the Thread class. 6
- (f) What is an abstract class ? Why are they needed ? 3
2. (a) Describe the different stages in the life cycle of an Applet. Also write the four differences between an Applet and an Application. 7
- (b) Describe the significance of wrapper classes. 3
3. (a) What is a package in Java ? Explain the procedure to create a user-defined package in Java. 6
- (b) Define Constructor. What is the purpose of default constructor ? Does a constructor return any value ? 4
4. (a) What is ‘finally’ in Java ? How many finally blocks can be associated with a try block ? Give an appropriate example and explain. 5
- (b) Write a Java program to illustrate the use of switch statement. 5

5. (a) Write a Java program to illustrate polymorphism with the help of late binding when calculating the area of a figure that can be a rectangle, a triangle or a circle. 7
- (b) Why is Java called Architecture-neutral ? Explain. 3
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