

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

**Term-End Examination**

**December, 2014**

**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) What is an applet ? Explain the applet life cycle with the help of an applet which will display your brief biodata including name, address and qualifications. 7
- (b) What is multithreading ? Explain the two ways to create a thread in Java with the help of example code. Also explain how priority of a thread may be altered in Java. 8
- (c) Write a Java program to create a circle class. This program should have methods to read/take radius and to display area of the circle. 6

- (d) What is *static* method ? Explain why the *main* method in Java is always static. 4
- (e) What is a package in Java ? Create a package and explain how it may be used in Java programs. 5
2. (a) What is inheritance ? Explain with an example how a class can be inherited in Java. 5
- (b) What is layout manager ? Explain GridLayout and show how it can be set in a Java program. 5
3. (a) What is polymorphism ? Explain the advantage of polymorphism with the help of a Java program. 7
- (b) Explain the use of *final* keyword in Java. 3
4. (a) What is exception handling ? Explain how exceptions are handled in Java program. Also, differentiate between ‘throw’ and ‘throws’. 6
- (b) Write a Java program which reads/takes a string as input and displays its length. 4

5. (a) What is an abstract class ? Explain why an abstract class cannot be instantiated, with the help of an example. 5
- (b) Write a Java program to create a Book class and make its objects using proper constructor. 5
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