

**BACHELOR OF COMPUTER APPLICATIONS**

**(BCA) (Pre-Revised)**

**Term-End Examination**

**December, 2018**

00003

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

*Time : 2 hours*

*Maximum Marks : 60*

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

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1. (a) What is an array ? Write a Java code fragment for declaring and initializing a two-dimensional array. 4
- (b) What is polymorphism ? Explain how polymorphism is supported in Java, with an example. 5

- (c) What is a Java package ? Give an example program which uses packages. Also write the name of the package which is always imported by default. 6
- (d) What is a synchronized block in Java ? Why do we use it ? 6
- (e) What is an applet ? What are the various ways to execute an applet ? 4
- (f) What method is used to retrieve the font of the text ? Write a program fragment for font retrieval. 5
2. (a) Define interface. What modifiers may be used with an interface declaration ? What is the difference between an interface and an abstract class ? 6
- (b) Explain the transient modifier with a Java program. 4
3. (a) What is event handling in Java ? List out any four of the available event classes and event listeners with suitable example. 6
- (b) Define constructor. Can you call one constructor from another if a class has multiple constructors ? Justify your answer. 4

4. (a) Explain the different forms of inheritance with examples. 5
- (b) Define the basic construct in Java to support the exception handling feature. Write a code fragment for handling multiple exceptions with an explanation. 5
5. (a) What is a static method ? Why cannot a static method use 'this' and 'super' ? Explain with an example. 7
- (b) What is the difference between the && and & operators ? 3
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