

Reg. No.

--	--	--	--	--	--	--	--	--	--



BSCCSC 357

Credit Based Sixth Semester B.Sc. Degree Examination, April/May 2017
COMPUTER SCIENCE
Paper – VIII : Java Programming (Elective – II)
(2014 – 15 Batch Onwards)

Time : 3 Hours

Max. Marks : 80

PART – A

1. Answer **any ten** questions. **(10x2=20)**

- a) What is data Encapsulation ?
- b) List different integer data types available in Java.
- c) If $x = 5$, $y = 6$, what would be the output of the following statements ?
 - i) `System.out.println ("z =" + (int)(y/x));`
 - ii) `System.out.println ("z =" + (y ++) + (-x));`
- d) What are command-line arguments ?
- e) What is method overloading ?
- f) What is the significance of public and static keywords in the definition of main method ?
- g) How to import a specific class of a package ?
- h) What is synchronization with reference to multithreaded programming ?
 - i) Mention the class and the interface that support multithreading.
 - j) What is appletviewer ?
- k) Define event and listener.
- l) What is an exception ? Name the class at the top of the exception hierarchy.

P.T.O.



PART - B

Note : Answer **one full** question from **each** Unit.

Unit - I

2. a) Explain the process of creating and executing a java program with an example.
 - b) Explain switch statement with syntax and example.
 - c) Explain labeled break statement with syntax and example. (5+5+5)
3. a) Explain the process of reading a character from the keyboard with an example.
 - b) Explain the enhanced for loop with an example.
 - c) Explain the *break* and *continue* statements with examples. (5+5+5)

Unit - II

4. a) Explain the use of constructors with an example.
 - b) Explain method overriding with an example.
 - c) Write Java code to create a class with recursive and non-recursive methods to compute the factorial of a number. (5+5+5)
5. a) Explain the use of static blocks with an example.
 - b) Illustrate with an example, the use of super keyword to access a superclass constructor.
 - c) Explain the concept of abstract classes with an example. (5+5+5)

Unit - III

6. a) What is a package ? Write Java code to create the following packages.
 - i) To convert temperature in Centigrade to Fahrenheit.
 - ii) To calculate the simple interest.
- b) Explain exception handling in Java with a simple example.
- c) Explain different methods of Throwable class. (5+5+5)



- 7. a) Explain any five thread methods.
- b) Illustrate the use of multiple catch statements with an example.
- c) Explain any five built-in exceptions of Java. (5+5+5)

Unit - IV

- 8. a) Explain the complete applet skeleton.
 - b) Explain different event listener interfaces.
 - c) Illustrate the use of Label with an example. (5+5+5)
- 9. a) Explain any five methods defined by applet.
 - b) Explain the JFrame and any four methods associated with it.
 - c) Explain different methods associated with a check box. (5+5+5)