Reg. No. | | | | | | | | | |

BCACAC 314

Credit Based Fifth Semester B.C.A. Degree Examination, Nov./Dec. 2018
(Common to All Batches)
JAVA PROGRAMMING

Time : 3 Hours   Max. Marks : 100

*Note : Answer **any ten** questions from Part – **A** and **any one full**
question from **each** Unit in Part – **B**.*

PART – A

1. a) What is Bytecode ?

   b) Mention two ways of writing comments in Java.

   c) Define Stream. Name any two pre-defined stream classes.

   d) What are Irregular Arrays ?

   e) What is the purpose of super() in Java ?

   f) What are static variables ?

   g) What is Multithreading ?

   h) List any 4 API packages of Java.

   i) Differentiate Components and Containers.

   j) What is an Applet ? Name any 2 types of applets.

   k) What is a Listener ?

   l) Name any four Swing layouts.

PART – B

Unit – I

2. a) List and explain the primitive data types in Java.

   b) Differentiate Character Stream and Byte Stream. With an example explain
   the process of reading a string from the keyboard.

   c) With syntax and example explain the use of labelled continue statement.

   d) Explain any three forms of FOR loop with suitable examples.   **(5+5+4+6)**

3. a) Explain any six features of Java.

   b) Explain automatic type conversion with suitable example.

   c) Write Java code to find the sum of first 'n' natural numbers.

   d) Explain various types of if statements with syntax and example.   **(5+5+4+6)**

Unit – II

4. a) Explain the different types of access modifiers in Java.

   b) Explain any five string methods with syntax and examples.

   c) Explain Multi-level inheritance with example.

   d) What is an abstract class ? What are its features ? Give example.   **(5+5+6+4)**

5. a) With an example explain Command Line Arguments.

   b) What is a class ? Explain how objects are created from a class in java with an example.

   c) What is a Constructor ? Explain Constructor overloading with an example.

   (6+6+8)

Unit – III

6. a) List and explain any six thread methods.

   b) What are exceptions ? Explain with an example the mechanism of Exception Handling.

   c) How do you create and implement an interface in Java ?   **(6+8+6)**

7. a) Define Thread. With an example explain how to create a thread by using Runnable interface and by using Thread class.

   b) List and explain any five built in exceptions in Java.

   c) Explain the creation and usage of package.   **(8+5+7)**

Unit – IV

8. a) List and explain the components of Delegation Event Model.

   b) Explain the complete Applet skeleton.

   c) Write notes on :

      i) JButton

      ii) JTextField.   (6+7+7)

9. a) Write a note on Menu creation.

   b) What is the purpose of Mouse Listener Interface ? With syntax and example explain any three methods of MouseListener Interface.

   c) Define Layout Manager. With an example explain FlowLayout.

   d) Explain the process of adding and removing components to a container.

                                                                    (4+7+4+5)