Roll No. ....................................

# BCA-11/BA-IT-12 (Bachelor of Computer Application)

## 4ᵗʰ Sem Examination-2015

# BCA-13

## Programming in JAVA

**Time :** 3 Hours                    **Maximum Marks :** 60

**Note : This paper is of sixty (60) marks divided into three (03) sections A, B, and C. Attempt the questions contained in these sections according to the detailed instructions given therein.**

### Section - A

### (Long Answer Type Questions)

**Note : Section 'A' contains four (04) long-answer-type questions of fifteen (15) marks each. Learners are required to answer any two (02) questions only.        (2×15=30)**

1.    Explain in detail about Java operators and expressions with examples.

2.    What are the different types of loop in the Java programming language? Briefly explain with their syntax.

3.    What are the characteristicso JDBC? What are the various steps for using JDBC? Write a program to demonstrate these steps.

4.    Explain the Exception handling mechanisms in detail.

## Section - B

### (Short Answer Type Questions)

**Note : Section 'B' contains eight (08) short-answer-type questions of five (05) marks each. Learners are required to answer any four (04) questions only.          (4×5=20)**

1.      What are the basic features of java?

2.      What is Java virtual machine? State its purpose.

3.      Write the significance of packages.

4.      Why Java is called machine independent language? Explain.

5.      What is Primitive and Non-Primitive data types in JAVA?

6.      What is a constructor? How do we invoke a constructor? What are its special properties?

7.      What is a vector? How is it different from an array?

8.      What is the difference between an interface and a class?

## Section - C

### (Objective Type Questions)

**Note : Section 'C' contains ten (10) objective-type questions of one (01) mark each. All the questions of this section are compulsory.          (10×1=10)**

1.   The smallest individual units in a program are known as ..............

   A. Token                      B. Program

   C. Keywords                 D. None of the above

2.  An operator that require one operand is called .............operator.

    A. Binary                    B. Unary

    C. sizeof                    D. None of the above

3.  Java provides a mechanism for handling database known as
    ..............

    A. JDBC                      B. ODBC

    C. RDBMS                     D. None of the above

4.  Java Source Code is compiled into ..............

    A. .EXE                      B. Source Code

    C. .Obj                      D. Bytecode

5.  A class in java is declared using the ............. keyword.

    A. Class                     B. Object

    C. Both A and B              D. None of the above

6.  A method that call itself is said to be ............. method.

    A. While                     B. For

    C. Recursive                 D. None of the above

7.  What is the full form of JDK ?

    A. Java Data Kit             B.- Java Definition Kit

    C. Java Development Kit      D. Java Design Kit

8.  What does the AWT stands for ?

    A. Abstract Window toolkit   B. A web toolkit

    C. Application with types    D. None of the above

9. The extension name of a Java source code file is?

    A. .class                  B..obj

    C. .java                  D. None of the above

10. Which is a reserved word in the Java programming language?

    A. Method             B. Native

    C. Subclasse          D. Array