BCA 11-(Bachelor of Computer Applications)
Forth Semester Examination 2013
BCA-13
Programming in JAVA

Time: 3 Hours   **Max. Marks: 60**

Section A
(Long Answer Type Questions)

Note: Answer any two questions. Each question carries equal marks.

2x15=30 Marks

1. What is JDBC? Discuss different types of JDBC Driver available in Java.
2. What do you mean by inheritance? Discuss various inheritance supported in Java with suitable example.
3. Discuss different exceptions and exception handling mechanism in JAVA with suitable example.
4. Explain the life cycle of an applet.

Section B
(Short Answer Type Questions)

Note: Answer any four questions. Each question carries equal marks.

4x5=20 Marks

1. Write a Java program to calculate the Simple Interest by reading inputs from the keyboard using the formula SI = P * N * R/100.
2. Differentiate between Method Overloading and Method Overriding?
3. What is Thread? Explain.
4. Write a difference between application program and Applet program.
5. Discuss different control statements available in java?
6. Define array? How multidimensional arrays are handled in java? Illustrate the answer?
7. Discuss the characteristics of JAVA.
8. Compare and contrast while and do-while statements in JAVA with example.

Note: Answer all questions. Each question carries equal marks.

Choose the correct alternative

10x1=10 Marks

1. Which will legally declare, construct, and initialize an array?
    A.   int [] myList = {"1", "2", "3"};
    B.   int [] myList = (5, 8, 2);
    C.   int myList [] [] = {4,9,7,0};
    D.   int myList [] = {4, 3, 7};

2. Which is a reserved word in the Java programming language?
    A.   method
    B.   native
    C.   subclasses
    D.   None of the above

3. Which is a valid keyword in java?
    A. interface
    B. string
    C. Float
    D. unsigned

4. What is the name of the method used to start a thread execution?

    A. init();
    B. start();
    C. run();
    D. resume();

5. Which of the following will directly stop the execution of a Thread?

    A. wait()
    B. notify()
    C. notifyall()
    D. exits synchronized code

6. What is byte code in the context of Java?

   A. The type of code generated by a Java compiler
   B. The type of code generated by a Java Virtual Machine
   C. It is another name for a Java source file
   D. It is the code written within the instance methods of a class.

7. JVM stands for……………

   A. Java Virtual Machine
   B. Java Virtual Memory
   C. Java Virtual Mechanism
   D.   Java Virtual Management

8. Which of the following control flow statement is not available in Java?

   A. switch
   B. if
   C. goto
   D. if-else

9. x = x+1 is equivalent to

   A.   ++x
   B.   x++
   C.   x=x-1
   D.   None of the above

10. Which method executes only once

   A. start() method

   B. init() method

   C. stop() method

   D. destroy() method