S.B. Roll No...

JAVA PROGRAMMING
5th Exam/COMP/IT/CSE/4629/Nov'19

Duration: 3Hrs.   **M.Marks:75**

SECTION-A

Q1. a) Expand the following acronym.   **15x1=15**

  i. JVM
  ii. GUI
  iii. JRE
  iv. API
  v. JDBC

b) State True or False.

  vi. Java supports multiple inheritances.
  vii. Package provides a way to hide the classes.
  viii. Java is case sensitive language.
  ix. Java is object-oriented programming language.
  x. Thread and process is one and the same thing.

c) Fill in the blanks.

  xi. JIT converts _____ into native machine code.
  xii. JavaC is a Java _____.
  xiii. Two types of polymorphism are _____ and _____.
  xiv. An _____ is implicitly abstract.
  xv. An object of a class is a _____ object.

SECTION-B

Q2. Attempt any six questions.   **6x5=30**

  a. Write any five features of Java.
  b. Explain two-dimensional array with a suitable example.
  c. Clearly differentiate between an Interface and a class.
  d. Explain try, catch and finally blocks with a suitable example.
  e. Write a short note on Java Applets.
  f. Explain JDBC architecture with a neat diagram.
  g. Write a Java program to find factorial of a number.
  h. Write a Java program to find whether a number is odd or even.
  i. Write a Java program to add two numbers.
  j. Write a short note on garbage collection.

SECTION-C

Q3. Attempt any three questions.   **3x10=30**

  i. Write a note on Data Types in Java.
  ii. Write a short note on the following.
     a) Access specifies / modifiers.   b) Data type casting   c) Inheritance   d) Encapsulation
  iii. Explain life cycle of a thread with a neat sketch.
  iv. Explain various control statements in Java.
  v. Write a program to get the following output.

```
       *
     *   *
   *       *
   *       *
       *
```