B.C.A. Part—III (Semester—V) Examination
CORE JAVA
Paper—5ST1

Time : Three Hours]   [Maximum Marks : 60

Note :— (1) **ALL** questions are compulsory.

(2) All questions carry equal marks.

1. (a) What is Java ? Explain the features of Java.   6

   (b) Write a program in Java to demonstrate sum of command line arguments.   6

OR

2. (a) Explain the Object Oriented Programming Principles.   6

   (b) Explain the various datatypes in Java.   6

3. (a) Explain the class and object in Java with example.   6

   (b) Explain the use of super keyword in class hierarchy.   6

OR

4. (a) What is Constructor ? Explain the constructor overloading.   6

   (b) What is Inheritance ? Explain the types of inheritances in Java.   6

5. (a) What is Package ? Explain pre-defined packages in Java.   6

   (b) What is the difference between extends and implements keyword in Java ?   6

OR

6. (a) What are the steps for creating package in Java ? Explain with example.   6

   (b) How does Java support Multiple Inheritance ? Explain with example.   6

7. (a) What is Exception ? Explain the types of exceptions in Java.   6

   (b) Explain the methods of Thread Class.   6

OR

8. (a) Explain the use of following keywords :—

   (i) Try

   (ii) Catch

   (iii) Finally.   6

   (b) Write a program in Java to demonstrate multithreaded program.   6

9. (a) What is Applet ? Explain the life cycle of an Applet.   6

   (b) Explain the mouse and keyboard events in Java.   6

OR

10. (a) Explain the Graphical User Interface (GUI) components in Java.   6

   (b) Explain the methods of Applet Class.   6