

**Exam. Code : 206703**

**Subject Code : 4693**

**M.Sc. Computer Science 3<sup>rd</sup> Semester**  
**CONCEPT OF CORE AND ADVANCED JAVA**  
**Paper—MCS-304**

Time Allowed—3 Hours] [Maximum Marks—100

**Note** :— Candidates are to attempt *five* questions, *one* from each Section. **Fifth** question may be attempted from any Section. All questions carry equal marks.

**SECTION—A**

1. Explain multithreading and multitasking.
2. Explain the concept of inheritance in Java. How multi-inheritance is implemented in Java ?

**SECTION—B**

3. Explain lifecycle of applet with help of an example.
4. Define exception. How is it handled in the JAVA program ?

**SECTION—C**

5. Differentiate file input stream from output stream with example in Java.
6. Explain the JVM used in JAVA.

**SECTION—D**

7. What are Java Classes ? Explain with example.
8. Write notes on :
  - (a) Control Structures in Java
  - (b) Synchronization
  - (c) Inter Thread Communication
  - (d) Packages and Interfaces.