

**Exam. Code : 206703**

**Subject Code : 3681**

**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 :—** Attempt any **five** questions. All questions carry equal marks.

1. What are Java Beans ? Explain Bean writing process. Discuss how to build an application with beans.
2. Explain Inheritance and Exception handling in Java with suitable examples.
3. Describe applet architecture. Write Applet program to handle mouse events.
4. What are the different Control statements in JAVA ? Explain with suitable examples.
5. Describe the Life Cycle of Thread. Explain with an example how Java performs Thread Synchronization.
6. What is polymorphism in Java ? How will you implement polymorphism with suitable example ? Also write the use of interfaces.

7. What is difference between multithreading and multitasking ? Explain life cycle of a thread in Java.
8. Write short notes on :
  - (a) Parameter Passing
  - (b) Object Oriented Programming
  - (c) Java Virtual Machine
  - (d) Telnet in Java.