

**Total No. of Questions : 09**

**B.Tech.(IT) (2011 Onwards E-III) (Sem.-7,8)**

# ADVANCED JAVA

**Subject Code : BTIT-906**

**M.Code : 71990**

**Time : 3 Hrs.**

**Max. Marks : 60**

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

## SECTION-A

**1. Write briefly :**

- a) What is difference between user thread and daemon thread?
- b) What is concurrency in Java programming?
- c) Define locks in Java.
- d) What is the need of serialization in Java?
- e) Write a short note on use of API in streaming.
- f) Write a short note on java security.
- g) Give the syntax of any database connectivity driver.
- h) Define prepared statements in Java.
- i) Why Java Beans are called “beans”?
- j) Give the fundamentals of importance of generic in Java.

### **SECTION-B**

2. Explain the use of semaphores in Java threading applications.
3. How do thread communicate with each other in Java? Illustrate with diagram.
4. Show the Input Stream hierarchy in Java with block diagram.
5. Discuss transaction management. What is the role of commit().
6. Why do we need Java Beans? What are its types?

### **SECTION-C**

7. Explain the thread life cycle in JAVA? What are advantages of multithreading?
8. What is Java Database Connectivity (JDBC)? Show with examples using Driver Manager, Connection and Result Set.
9. How do we use annotation in JAVA? Discuss built in java annotation by taking an example.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**