

## **Question Bank**

### **Module 4**

#### **Object Oriented Programming Using Java (21CIC34)**

**Semester:3rd**

**Session : July-Dec 2022**

1. What is interface? Why use Java interface? How to declare an interface? State the relationship between classes and interfaces.
2. What is multiple inheritance? Multiple inheritance is not supported through class in java, but it is possible by an interface, why? Explain with an example.
3. Distinguish between the abstract class and interface.
4. What is thread and multi-threading in Java? Discuss the life cycle of the thread in java.
5. What is Multi-threading? What are the ways to create thread and multiple threads in java.
6. Define thread priorities in Java with suitable example in Java
7. Discuss briefly Runnable interface. How can a thread be created? Explain with an example .
8. Write a program to create single thread and multiple thread in Java.
9. What is synchronization? What are different ways of synchronizing threads? Give example for each.
10. Explain and Demonstrate the inter thread communication with an example.
11. Create two threads in which one displays “Dept of CSE” for every 50 seconds and the other displays “ Jain University” for every 100 seconds continuously.
12. With proper syntax and example explain following thread methods : (1) wait( ) (2) sleep( ) (3) resume( ) (4) notify( )
13. What is package ? How do we create it ? Give the example to create and to access package.
14. Explain the visibility of each Access specifier with respect to package.