# LNCT UNIVERSITY, BHOPAL

**II- Mid Semester Exam December 2024**
**Branch: CSE Semester: III**
**CS-304 Elective Java**

Time 1:30 Hrs                                                   Max. Marks 20

**Note:** All questions are compulsory and have internal choice.

**Ques.1:** a) What is Thread Synchronization in java ? How do we achieve it.

(CO3 4Marks)

b) Explain the life cycle of Thread with diagram. (CO3  3Marks)

**OR**

a) What is Exception handling?Also Explain Exception handling keywords                                    (CO3 4 Marks)

b) Difference between Checked and Unchecked Exception.

CO3 3 Marks)

**Ques.2** Explain Collection Framework in Detail?

(CO4  7 Marks)

**OR**

Difference between-
1 Iterator,ListIterator and Enumration
2 Comparable and Comparator Interface
3 ArrayList and LinkedList    (CO4  7 Marks)
**OR**

**Ques. 3**Explain Input Output Stream With Example. (CO5 6 Marks)

**OR**
What is JDBC ?Also explain JDBC Architecture. (CO5 6 Marks)