



R20 Regulation

Subject code: 306DE

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VI Semester Supplementary Examinations, November 2025

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(ECE)

Maximum Marks: 70

Date: 17.11.2025

Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20 Marks)		Marks	CO	BTL
1	List the advantages and disadvantages of arrays.	2M	1	L1
2	How to allocate memory for objects?	2M	1	L1
3	Distinguish between Class and interface.	2M	2	L1
4	List the methods of File Input Stream.	2M	2	L1
5	Distinguish between throws and throw keywords.	2M	3	L1
6	Define thread.	2M	3	L1
7	What is collection framework?	2M	4	L1
8	List any three differences between list and set.	2M	4	L1
9	What is a listener?	2M	5	L1
10	List any four methods of map interface.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain the difference between method overloading and method overriding with program	10M	1	L2
OR				
12	Explain about Object Oriented concepts.	10M	1	L2
13	Explain about the FileInputStream and FileOutputStream in java with examples.	10M	2	L2
OR				
14	What is Serialization and deserialization? Explain with program.	10M	2	L2
15	Explain Following terms with an Example. i) try ii) catch iii) finally iv) throw v) throws	10M	3	L2
OR				
16	What are the different ways that are possible to create multiple threaded programs in java? Discuss the differences between them.	10M	3	L2
17	Write a java program to demonstrate Linked List class methods?	10M	4	L2

	OR			
18	Write a java code to explain any six methods of MAP interface in java.util package?	10M	4	L2
19	Mention and explain any four event handling methods for Mouse Event.	10M	5	L2
	OR			
20	Explain MVC architecture. write its advantages and disadvantages.	10M	5	L2