R20 Regulation *Subject code:3P4EF*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, June 2026

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(CSE)

Maximum Marks: 70 Date: 19.06.2026 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	What is an Object? How to allocate memory for objects?	2M	1	L1
3	Differentiate between Class and interface.	2M	2	L1
4	List the methods of File Input Stream.	2M	2	L1
5	Differentiate between throws and throw keywords.	2M	3	L1
6	What is a deadlock?	2M	3	L1
7	Define set interface.	2M	4	L1
8	Differentiate between Comparable and Comparator.	2M	4	L1
9	List methods of key Listener interface.	2M	5	L1
10	What is an Event?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	What is Inheritance? Explain different types of inheritance supported by java with example	10M	1	L2
	OR			
12	Explain different java Buzzwords.	10M	1	L2
13	Describe the various forms of implementing interface. Give an example of JAVA code for each case.	10M	2	L2
	OR			
14	Explain Reader stream classes and Writer stream classes.	10M	2	L2
15	Write about inter thread communication in java with an example	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	Write a detailed note on MVC architecture. Discuss its advantages and disadvantages.	10M	5	L2