R20 Regulation *Subject code: 3O6DE*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, April 2026

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(ECE)

Maximum Marks: 70 Date: 25.04.2026 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	What is abstract class?	2M	1	L1
2	List the features of object oriented programming?	2M	1	L1
3	What is package? Explain import statement?	2M	2	L1
4	Distinguish between abstract class and interface?	2M	2	L1
5	List the two distinct advantages of user define exceptions handling mechanisms?	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 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 is an arithmetic exception and write a program to handle the Arithmetic Exception (unchecked) in Java?	10M	3	L2
17	Analyze ArrayList class methods with program.	10M	4	L2

	OR			
18	a) Distinguish between ArrayList and a Vector. b) Explain String Tokenizer with an example.	5M 5M	4	L2
19	Explain frames in an AWT with Program in Java.	10M	5	L2
	OR			
20	What is an Event? Explain the role of Event handler in AWT.	10M	5	L2