



*R20 Regulation* *Subject code:3P4EF*  
**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
 (Autonomous, Accredited by NAAC with 'A+' Grade)

**B.Tech IV Semester Supplementary Examinations, December 2024**

**OBJECT ORIENTED PROGRAMMING THROUGH JAVA**  
**(CSE)**

**Maximum Marks: 70**

Date:17.12.2024

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 which carries 10M.
  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)		CO	Bloom Tx
1	List the advantages and disadvantages of arrays?	1	L1
2	What is an Object? How to allocate memory for objects?	1	L1
3	Differentiate between Class and interface?	2	L1
4	Differentiate between abstract class and interface?	2	L1
5	List the two distinct advantages of user define exceptions handling mechanisms?	3	L1
6	Define thread.	3	L1
7	What is Priority Queue?	4	L1
8	What is Comparators?	4	L1
9	What is Adapter class?	5	L1
10	What is AWT?	5	L1

**Part-B**

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
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	What is package? What are the benefits of package? Explain Java API packages. [10M]	2	L2
15	Explain Following terms with an Example. [10M] i)try ii)catch iii) finally	3	L2
OR			
16	A. Write a java program to create own exceptions. [5M] B. What is an arithmetic exception? How to handle the Arithmetic Exception (unchecked) in Java? [5M]	3	L2

17	Explain about ArrayList class with an example. [10M]	4	L2
	OR		
18	Discuss in detail about Tree set with an example. [10M]	4	L2
19	Explain various methods involved in the life cycle of an applet. [10M]	5	L2
	OR		
20	List and explain all methods of keyListener and MouseListener interface. [10M]	5	L2