



R20 Regulation

Subject code:3P4EF

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Regular/Supplementary Examinations, September 2023

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

Maximum Marks: 70

Date:26.09.2023 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)

- 1 Define Abstract class.
- 2 Define the break and continue statements.
- 3 Define Interface and list its uses.
- 4 What is meant by byte code?
- 5 Differentiate between wait () and sleep ().
- 6 Define an exception?
- 7 What is comparator?
- 8 List any four methods of collection interface.
- 9 Define Delegation Event Handling Model.
- 10 Distinguish between the choice and List controls.

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 A. Explain different parts of a Java program with an appropriate example. 5M
B. Define an array? How do you declare the array in java? Give example. 5M
OR
- 12 Define Inheritance? Explain different types of inheritance supported by java with example? 10M
- 13 A. Explain the process of defining and creating a package with suitable examples. 7M
B. List the methods of FileInputStream. 3M
OR
- 14 A. Compare and Contrast method -overloading and method overriding? 5M
B. Differentiate between abstract class and interface? 5M
- 15 Explain about inter thread communication in java with an example. 10M
OR

- 16 Define Arithmetic Exception? How to handle the ArithmeticException (unchecked) in Java? 10M
- 17 Write a sample java code to demonstrate LinkedList class methods? 10M
- OR
- 18 A. Differentiate between Array List and a Vector? 7M
B. List any four methods of map interface. 3M
- 19 A. Define Event? Explain the role of Event handler in AWT. 7M
B. Write any three differences between a Window and a Panel? 3M
- OR
- 20 What is the significance of Layout managers? Discuss briefly various layout Managers. 10M