



R20 Regulation

Subject code:3P4FD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

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

JAVA PROGRAMMING

(IT)

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 Mention the access specifiers in java.
- 2 Define constructor.
- 3 Write about java.util package?
- 4 Compare between a Class and an Interface.
- 5 Differentiate between error and exception.
- 6 How to assign priorities to threads?
- 7 Define hash table with syntax.
- 8 Make a comparison of List, array, and Array List
- 9 Mention different AWT components
- 10 What are the characteristics of border layout

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 A. Demonstrate about different Buzzwords of a java language. [5]
B. Write a program to delete the duplicate elements in a given array. [5]
OR
- 12 A. Define the term inheritance. Explain various types of inheritances with an example. [5]
B. Write a java program that demonstrates various usage of super keywords in java language.[5]
- 13 A. Write the procedure to create a user defined package with an example. [5]
B. What is an Interface? Give the general form of an Interface and discuss the implementation details of Interfaces. [5]
OR
- 14 A. Differentiate File Input Stream and File Reader with example application. [5]
B. Discuss about different streams in JAVA. [5]
- 15 A. Write a program to illustrate the use of multiple catch blocks for a try block. [5]
B. What are the uses of 'throw' and 'throws' clauses for exception handling? [5]
OR
- 16 A. Describe thread synchronization with an example. [5]
B. Define a Thread. How do we set priorities for threads. [5]

- 17 A. Differentiate between Array List and Vector. [5]
B. Outline the methods of Stack class. [5]

OR

- 18 A. Explain the concept of Java collection framework. [5]
B. Explain about cursors and its types. [5]

- 19 A. Demonstrate any two Layout Managers with example programs. [5]
B. Explain delegation event model of handling events with a suitable JAVA program. [5]

OR

- 20 A. Write a Java program that demonstrates the life cycle methods of Applet. [5]
B. Develop a java application using swing component. [5]