



R18 Regulation

Subject code:205DF

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, February 2024

OOPs Through JAVA

(ECE)

Maximum Marks: 70

Date: 24.02.2024 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.
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 BTL

		CO	BTL
1	Explain how Java is platform independent.	CO1	L2
2	Differentiate between print() and println() methods in Java.	CO1	L2
3	What are the methods available in the character streams?	CO2	L1
4	What is the significance of the CLASSPATH environment variable in creating/using a package?	CO2	L1
5	What is synchronization and why is it important?	CO3	L1
6	What is the difference between error and an exception?	CO3	L1
7	What is the benefit of Generics in Collections Framework?	CO4	L1
8	Explain the use of layout managers.	CO4	L2
9	Give the AWT hierarchy.	CO5	L1
10	What is an Event?	CO5	L1

Part-B

Answer All the following questions. (10M X 5=50Marks)

11	How does polymorphism promote extensibility? Explain with example. [10]	CO1	L2
OR			
12	What is an Array? Explain the usage of arrays with an example [10]	CO1	L2
13	Distinguish between Byte Stream Classes and Character Stream Classes. [10]	CO2	L4

OR

14	Construct a program to demonstrate hierarchical and multiple inheritance using interfaces. [10]	CO2	L3
15	a) Differentiate between Checked and Unchecked Exceptions with examples. b) Construct a program to create four threads using Runnable interface. [5+5]	CO3	L2, L3
OR			
16	Construct a java program that illustrates the application of multiple catch statements [10]	CO3	L3
17	Compare Iterator and List Iterator? Explain different ways to iterate over a list. [10]	CO4	L4
OR			
18	a) What are the best practices related to Java Collections Framework? Discuss b) Compare Comparable and Comparator interface? Differentiate between them. [5+5]	CO4	L2 L4
19	a) Explain various layout managers in JAVA. b) Explain the different types of Event listeners supported by java. [5+5]	CO5	L2, L2
OR			
20	a) Discuss about different applet display methods in brief. b) Construct a java program to design a scientific calculator using AWT. [5+5]	CO5	L2, L3