



R18 Regulation

Subject code:206DC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, December 2024

OBJECT ORIENTED PROGRAMMING THROUGH JAVA (ECE)

Maximum Marks: 70

Date:07.01.2025

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	What is Object Oriented Programming? How it is different from Procedural concepts?	1	L1
2	What is abstract class?	1	L1
3	Write about packages in java?	2	L1
4	what is meant by interface?	2	L1
5	In how many ways a thread can be created. Explain?	3	L1
6	Write the usage of try and catch?	3	L1
7	Which methods of dequeue enable it to be used as a stack?	4	L1
8	Make a comparison of List, array and ArrayList.	4	L1
9	Discuss about Inner Classes?	5	L1
10	What is event handling?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	A) "Java is called Machine Independent language" - Justify this statement with proper explanation. [5M] B) Write short note on the following Object-Oriented Concepts. [5M] i) Encapsulation ii) Polymorphism	1	L2
OR			
12	A) What is Inheritance? Explain different types of inheritance supported by java with example? [5M] B) Write a Java program to check whether a given number is palindrome or not? [5M]	1	L2
13	Discuss about the File Input Stream and File Output Stream in java with examples. [10M]	2	L2
OR			
14	A) Write an example program to show the calling sequence of constructors. [5M] B) How to create packages and use them in java? [5M]	2	L2

15	A) Write a program with nested try statements for handling exception. [5M] B) How to create a user defined exception. [5M]	3	L2
	OR		
16	Write a program to create three threads in your program and context switch among the threads using sleep functions. [10M]	3	L2
17	A) What are similarities and difference between ArrayList and Vector? Explain. [5M] B) What is different between Iterator and ListIterator? Explain different ways to iterate over a list. [5M]	4	L2
	OR		
18	A) What are the best practices related to Java Collections Framework? Discuss [5M] B) What is Comparable and Comparator interface? Differentiate between them. [5M]	4	L2
19	A) Explain various layout managers in JAVA. [5M] B) What are the different types of Event listeners supported by java. [5M]	5	L2
	OR		
20	A) Discuss about different applet display methods in brief. [5M] B) Write a java program to design a scientific calculator using AWT. [5M]	5	L2