



R20 Regulation

Subject code:307GB

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

## B.Tech VII Semester Regular/Supplementary Examinations, December 2024

### OOOPS THROUGH JAVA (CSE(AI&ML))

Maximum Marks: 70

Date:30.12.2024

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	Define two methods in a class that have identical method names and parameter profile?		1	BL1
2	What is the size of char data type? Why does it differ from C language?		1	BL2
3	Define serialization and enumerations?		2	BL1
4	Define nested interface?		2	BL1
5	Distinguish between exception and error?		3	BL4
6	Describe multi-threading?		3	BL1
7	List the difference between list and set interfaces.		4	BL4
8	What is the difference between Iterator and List Iterator?		4	BL4
9	Write an example for anonymous inner class.		5	BL2
10	What is an event?		5	BL1

#### Part-B

Answer All the following questions.		(5X10M=50Marks)	CO	Bloom Tx
11	Apply type conversion in java with suitable examples and list out the type casting rules. [10M]		1	BL3
OR				
12	Determine types of inheritance with suitable examples. [10M]		1	BL3
13	How do we create a package and importing a package in java with a suitable example? [10M]		2	BL4
OR				
14	A) Explain how to define and implement an interface? [5M] B) Compare byte stream with character stream classes. [5M]		2	BL4
15	Analyze different exception types and handling mechanisms in Java. Give suitable examples. [10M]		3	BL4

	OR		
16	Explain in detail about creation of threads, thread synchronization and inter thread communication. [10M]	3	BL4
17	Illustrate collection interfaces. Distinguish between list, collections and deque interfaces. [10M]	4	BL4
	OR		
18	Explain the methods of string tokenizer? Write a program to count the number of words in a string by using the string tokenizer class? [10M]	4	BL4
19	A) Explain in detail Event Delegation Model. [5M] B) Write a program to implement handle Mouse Listener interface. [5M]	5	BL3
	OR		
20	A) Illustrate how to handle keyboard events. [5M] B) Write about Text Area and Text Field classes in java. [5M]	5	BL3