



R20 Regulation

Subject code:3P4EF

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, February 2024

OBJECT ORIENTED PROGRAMMING THROUGH JAVA (CSE)

Maximum Marks: 70

Date:28.02.2024 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 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 an Object? How to allocate memory for objects?		
2	Differentiate between print() and println() methods in Java.	1	L1
3	How to create and access a package?	1	L2
4	Differentiate between Classes and Interface.	2	L1
5	What is Synchronization?	2	L2
		3	L1
6	Differentiate between throws and throw keywords?	3	L2
7	What is legacy class?	4	L1
8	What is java collection framework?	4	L1
9	What is an Event?	5	L1
10	What are the limitations of AWT.	5	L1

Part-B

Answer All the following questions.

(5X10M=50Marks)

11	A. Explain different java Buzzwords? 5M B. Describe the structure of a typical Java program with an example. 5M	1	L2
	OR		
12	Explain about the Object Oriented Programming concepts. 10M	1	L2
13	A. Define package? What are the benefits of package? Explain Java API packages. 5M B. Describe the various forms of implementing interface. Give an example of JAVA code for each case. 5M	2	L2
	OR		
14	Write a program to find out the area and perimeter of rectangle and square using method overriding and also call the overridden method using dynamic method dispatch and use abstract class as Base class. 10M	2	L2
15	What are the different ways that are possible to create multiple threaded programs in java? 10M	3	L2

	OR		
16	A. Differentiate between Checked and Unchecked Exceptions with examples. 5M B. Define throw keyword. Explain with an example program. 5M	3	L2
17	A. Demonstrate ArrayList class with an example program. 5M B. Write StingTokenizer with an example. 5M	4	L4 L2
	OR		
18	A. What is Java Collections Framework? List out some benefits of Collections framework and explain. 5M B. Write a sample java code to explain any 6 methods of MAP interface? 5M	4	L2
19	A. Write a detailed note on MVC architecture. 4M B. Explain following components. 6M i) Button ii) Label iii) Text Field	5	L2
	OR		
20	Mention and explain any five event handling methods for Mouse Event. 10M	5	L2