



R20 Regulation

Subject code: 306DE

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, February 2024

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(Electronics and Communication Engineering)

Maximum Marks: 70

Date:27.02.2024 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	Differentiate between class and object.		1	L1
2	Define the basic characteristics of object oriented programming.		1	L1
3	How to define a package in Java?		2	L1
4	What is the use of auto boxing in java? Explain.		2	L1
5	What is the difference between error and an exception?		3	L1
6	Differentiate between a thread and a process.		3	L1
7	What is a Java Priority queue?		4	L1
8	Make a comparison of List, array and ArrayList.		4	L2
9	What is an adapter class? Explain with an example.		5	L1
10	Give the AWT hierarchy.		5	L1

Part-B

Answer All the following questions.		(5X10M=50Marks)		
11	A. Explain about Java buzzwords. B. What is the purpose of constructor in Java programming? [5+5]		1	L2
OR				
12	A. Describe the structure of a typical Java program with an example. B. Write the significance of Java Virtual Machine. [5+5]		1	L2
13	A. Explain the process of defining and creating a package with suitable examples. B. Describe the process of importing and accessing a package with suitable examples. [5+5]		2	L2
OR				
14	Explain about interface in JAVA with an example. [10]		2	L2
15	A. What are the different ways to handle exceptions? Explain. B. Differentiate between Checked and UnChecked Exceptions with examples. [5+5]		3	L2
OR				

16	A. Draw and explain life cycle of a thread? B. Write a simple java program to create threads. [5+5]	3	L2 L3
17	A. What are the common algorithms implemented in Collections Framework? Discuss. B. What is difference between ArrayList and LinkedList in collection framework? Explain. [5+5]	4	L2
OR			
18	With syntax, explain the following utility classes. [4+3+3M] a) String Tokenizer b) Date and Calendar c) Scanner.	4	L2
19	A. Explain about MVC architecture in detail? B. List and explain different types of Layout managers with suitable examples. [5+5]	5	L2
OR			
20	A. Discuss about Delegation event model in detail? B. List the event classes and Listener Interfaces? [5+5]	5	L2