BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE
(AUTONOMOUS)
II-B.TechI-Semester Regular Examinations (BR23), November - 2024
OBJECT ORIENTED PROGRAMMING THROUGH JAVA
(Common to CSE, CSE-(AI &DS), AI & ML branches)

Time: 3 hours   Max. Marks: 70

Question Paper consists of Part-A and Part-B
*Answer **ALL** the question in **Part-AandPart-B***

PART–A (10X2 = 20M)

		Marks	CO	BL
1. a)	List the Tokens in the Java language.	(2M)	CO1	BL1
b)	Demonstrate Bitwise operators using a Java program.	(2M)	CO1	BL3
c)	Define recursion. Discuss the advantages of recursion.	(2M)	CO2	BL2
d)	Discuss about Overloaded Constructor Methods.	(2M)	CO2	BL2
e)	Define an array. How can we initialize arrays?	(2M)	CO3	BL2
f)	Define interface in java?	(2M)	CO3	BL2
g)	What is Java IO API?	(2M)	CO4	BL2
h)	Demonstrate class Throwable.	(2M)	CO4	BL3
i)	Discuss various string Comparison functions in Java.	(2M)	CO5	BL2
j)	What is JavaFX scene builder?	(2M)	CO5	BL2

PART–B (5X10 = 50M)

2a.	Develop a Java program to demonstrate the behavior of static methods & variables?	5(M)	CO1	BL4
b.	Explain how with the help of Command line arguments we can customize the behavior of the main() method.	5(M)	CO1	BL3
	(OR)			
3a.	Compare the working of the while loop and do-while loop with suitable examples.	5(M)	CO1	BL2
b.	Demonstrate implicit and explicit type casting with an example program.	5(M)	CO1	BL3

4a.	Give brief description about the various access control mechanisms used in java.	5(M)	CO2	BL3
b.	Write a Java program to swap two numbers using call by reference.	5(M)	CO2	BL2
	(OR)			
5a.	Demonstrate the method Overloading with an example program	5(M)	CO2	BL3
b.	Explain 'this' keyword in Java with an example program	5(M)	CO2	BL3

6a.	Enumerate the concept of Super Keyword with a suitable example.	5(M)	CO3	BL3
b.	Explain the concept of Dynamic Method Dispatch with a Java program.	5(M)	CO3	BL3
	(OR)			
7a.	Demonstrate multi-level inheritance with an example program.	5(M)	CO3	BL3
b.	Demonstrate the Nested Interfaces using an example program.	5(M)	CO3	BL3

8a.	Explain about wrapper classes, Auto-boxing and Auto-unboxing.	5(M)	CO4	BL3
b.	Elaborate on Java.lang package and its classes.	5(M)	CO4	BL3
(OR)				
9a.	Briefly explain check exceptions and unchecked exceptions.	5(M)	CO4	BL3
b.	Demonstrate Temporal Adjusters class with an example Java program.	5(M)	CO4	BL3

10a	What are the states in the lifecycle of a thread? Explain with a neat diagram.	5(M)	CO5	BL2
b.	Why are string objects immutable? How to create an immutable class?	5(M)	CO5	BL2
(OR)				
11a	Discuss in detail JDBC Architecture with a neat diagram.	5(M)	CO5	BL2
b.	Explain the steps to establish MySQL with Java.	5(M)	CO5	BL3

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