## Shiv Nadar University Chennai

Mid Semester Examinations 2024 2025 Odd Question Paper

Name of the Program: B.Tech AIDS, IoT, Cybersecurity Course Code & Name: CS2003 Object Oriented Programming Semester: 3 Regulation 2021 Time: 2 Hours Answer All Questions Maximum: 50 Marks

Q.N					
1		Questions	Marks	со	KL
	a	State the difference between multilevel and hierarchical inheritance.	2	CO2	KL1
2	a	What is the purpose of 'super' keyword in java?		CO2	KL1
3	a	public class Output {	2		
		public static void main(String args) {	1	CO1	KL3
		for(int $i = 0$ ; $i < 1$ ; $i++$ ) {			
		System.out.println(i+'a');			
		}			
		}			
		}			
	-	What is the output of the above program?			
	b	class Solution{	1	CO1	KL3
		public static void main(String args[]){	198		
		int i;		No.	
		for( $i = 1$ ; $i < 6$ ; $i++$ ){  if( $i > 3$ ) continue;			
		n(1 > 3) continue;			
		System.out.println(i);			
		}			
		}			
		What is the output of the above program			
4	a	Write any two Javadoc tags along with their functionality.	2	CO1	KL1
5	a	Write any two differences between method overriding and method overloading	2	CO2	
		in Java.		002	KLZ
6	a	A newly opened IT firm named "Technosoft Solutions" has planned to design		CO1	KL3
		ID cards to all the employees who were selected to join their organization			
		Write a java program for designing the ID card using classes, objects and access modifiers available in Java.	l l		
		access modifiers available in Java.			
		Note: You can create various designation among the employees and datatypes			
		necessary for ID card must contain the appropriate access modifiers with			
		justification.			

7	a	Why java is called platform independent language.  Why java does not permit many			
	b		5	CO1	KL2
8	a	Create class box and box3d b	5	CO1	KL2
		must use super keyword to access the box class constructors and include additional fields weight and color. Write functions to calculate the volume Note: Base class and sub classes have respective methods and instance variables. Volume of Box = I	10	CO2	KL2
9	a	Create an interface named "StringOperations". It contains methods namely  DisplayReverse,  JoinStrings ConvertToUpper, StringTrim			
		ConvertToCharArray. Create an abstract class called "incompleteClass" which contains implementations for DisplayReverse and a class "completeClass" which contains full implementations for all methods in the interface.	10	CO2	KL3
		Note: DisplayReverse method should reverse the string.			, N
		method concatenates the two strings.			
		opper method converts the string to uppercase.			
		StringTrim method should remove the leading and trailing whitespaces from the string.			
		ConvertToCharArray creates a character array of the given string.			
		You can use the built-in string functions in java or create your own functions.  The input should be got from the user.		32 1	

KL – Bloom's Taxonomy Levels (KL1: Remembering, KL2: Understanding, KL3: Applying, KL4: Analyzing, KL5: Evaluating, KL6: Creating) CO – Course Outcomes