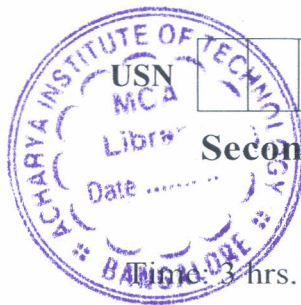


# CBCS SCHEME

22MCA22



**Second Semester MCA Degree Examination, Dec.2024/Jan.2025**  
**Object Oriented Programming using Java**

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
 2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain object oriented principles of Java.	06	L2	CO1
	b.	List any four differences between POP and OOP.	04	L2	CO1
	c.	List and explain advantages and disadvantages of inheritance.	10	L2	CO1
<b>OR</b>					
Q.2	a.	Write a Java program to demonstrate constructor overloading and method overloading.	10	L3	CO2
	b.	Explain Java Access Modifiers with a program.	10	L2	CO2
<b>Module – 2</b>					
Q.3	a.	What is Hierarchical inheritance? Explain with example.	10	L2	CO4
	b.	Write a Java program to perform multilevel inheritance.	10	L3	CO4
<b>OR</b>					
Q.4	a.	Explain early binding and late binding with example.	10	L2	CO3
	b.	Explain abstract class and abstract methods in Java.	10	L2	CO3
<b>Module – 3</b>					
Q.5	a.	List and explain the difference between Abstract class and Interface.	10	L2	CO3
	b.	Briefly explain how to handle multiple inheritance in Java with program.	10	L2	CO3
<b>OR</b>					
Q.6	a.	What are packages? List the advantages of packages in Java.	10	L2	CO1
	b.	i) Explain classpath in Java with proper steps. ii) Difference between path and class path.	10	L2	CO1
<b>Module – 4</b>					
Q.7	a.	Define exception. Explain exception handling mechanism with example.	10	L2	CO5
	b.	Write a Java program to handle multiple Catch Blocks (Exceptions).	10	L3	CO5
<b>OR</b>					
Q.8	a.	List the difference between checked and unchecked exception.	10	L2	CO5
	b.	Explain : i) try      ii) catch      iii) finally      iv) throws	10	L2	CO5
<b>Module – 5</b>					
Q.9	a.	List the difference between AWT and Swing.	10	L2	CO6
	b.	Explain any 5 components of Java Swing.	10	L2	CO6
<b>OR</b>					
Q.10	a.	Write a Java applet program which handles keyboard event.	10	L2	CO6
	b.	With neat diagram explain Java applet life cycle. Also give an example code.	10	L3	CO6

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