

# CBCS SCHEME

USN

22MCA22

**Second Semester MCA Degree Examination, Dec.2024/Jan.2025**

## Object Oriented Programming using Java

Time: 3 hrs.

Max. Marks: 100

*Notes: 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
OR						
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
Module – 2						
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
OR						
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
Module – 3						
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
OR						
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
Module – 4						
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
OR						
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
Module – 5						
Q.9	a.	List the difference between AWT and Swing.		10	L2	CO6
	b.	Explain any 5 components of Java Swing.		10	L2	CO6
OR						
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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