



Thrid Semester B.E./B.Tech. Degree Examination, June/July 2026 Object Oriented Programming with 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.	6	L2	CO1
	b.	What are Identifiers? Explain the rules to be followed while using identifiers.	6	L2	CO1
	c.	Develop a Java program to add two matrices of suitable order N (The value of N should be read from command line arguments).	8	L3	CO1
OR					
Q.2	a.	Explain the following Logical operators with example. i) & ii) ^ iii) <<	6	L2	CO1
	b.	Define Type Conversion. Explain 2 types of conversion.	6	L2	CO1
	c.	Show the working of traditional for loop and enhanced for loop in Java.	8	L2	CO1
Module – 2					
Q.3	a.	Explain method overloading with an example.	6	L2	CO2
	b.	Explain use of “this” in Java.	6	L2	CO2
	c.	A class called Employee, with models an employee with an ID, name and salary. The method raisesalary (percent) increase the salary by the given percentage. Develop the Employee class and suitable main method for demonstration.	8	L4	CO2
OR					
Q.4	a.	Explain pass by object in Java with example.	6	L2	CO2
	b.	What are Constructor? Explain two types of constructor with example.	6	L2	CO2
	c.	Develop a Java Program to find factorial of a given number using recursion.	8	L3	CO2
Module – 3					
Q.5	a.	What is Multilevel Inheritance? Develop a Java program that demonstrates multilevel inheritance.	10	L3	CO3
	b.	What is an Interface? Develop a Java program that define and implement interface.	10	L3	CO3

OR					
Q.6	a.	Develop a Java Program that demonstrates dynamic method dispatch.	10	L3	CO3
	b.	Explain how super keyword can be used to access super class variable and super class methods with an example program.	10	L2	CO3
Module – 4					
Q.7	a.	What is a Package? Explain with example.	6	L2	CO4
	b.	What is an Exception? Give an example how to handle exception.	6	L2	CO4
	c.	Explain different access modifiers in Java.	8	L2	CO4
OR					
Q.8	a.	Develop a Java Program to raise a custom exception (user defined exception) for DivideByZero using try, catch, throw and finally.	10	L3	CO4
	b.	Develop a Java program to create a package named mypack, import and implement it in a suitable class.	10	L3	CO4
Module – 5					
Q.9	a.	What are Enumerations? Develop a Java program that demonstrate value() and valueof() methods.	10	L3	CO5
	b.	Define auto-boxing and auto un-boxing and how it is different from boxing and unboxing. Illustrate with an example.	10	L2	CO5
OR					
Q.10	a.	Explain isAlive() and join() with an example.	6	L2	CO5
	b.	Define Synchronization. Explain with an example.	6	L2	CO5
	c.	Define Thread. Develop a java program to create thread in java.	8	L3	CO5
