

Third Semester MCA Degree Examination, Dec.2025/Jan.2026
Advanced Java and J2EE

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.	What are enumerations? Demonstrate values() and valueOf() methods with an example program.	08	L2	CO1
	b.	Apply the various types of wrapper classes available in Java.	06	L3	CO1
	c.	Demonstrate marker annotations with an example.	06	L2	CO1
OR					
Q.2	a.	Illustrate autoboxing or unboxing with a Java program.	07	L2	CO1
	b.	Develop a Java program to obtain annotations at runtime by use of reflections.	07	L3	CO1
	c.	Explain the following methods of java.Lang.enum with an example program. i) ordinal() ii) compareTo() iii) equals()	06	L2	CO1
Module – 2					
Q.3	a.	Make use of Queue interface methods of collections package in a Java program.	10	L3	CO2
	b.	Explain ArrayList. Illustrate the use of ArrayList Methods to insert and remove a string.	10	L2	CO2
OR					
Q.4	a.	Outline the different interfaces that support maps.	10	L2	CO2
	b.	Explain the constructors of TreeSet class and write a Java program to create TreeSet collection and access it via an Iterator.	10	L2	CO2
Module – 3					
Q.5	a.	Define string in Java. Demonstrate the constructors of string class with a Java program.	10	L2	CO1
	b.	Interpret the following methods of string Buffer class: i) append ii) insert() iii) reverse() iv) replace()	10	L2	CO1
OR					
Q.6	a.	Construct a program to modify strings in Java with different methods.	10	L3	CO1
	b.	Explain the following methods with example. i) equals() ii) regionMatches() iii) startsWith() iv) endsWith()	10	L2	CO1

Module – 4					
Q.7	a.	Define a Cookie. Make use of cookie methods in a program to read a cookie.	10	L3	CO3
	b.	Define JSP. Recall different types of JSP tags with suitable examples.	10	L1	CO3
OR					
Q.8	a.	Develop a servlet program that demonstrates how to use session state.	10	L3	CO3
	b.	Demonstrate how parameters can be accessed from HTML using JSP.	10	L2	CO3
Module – 5					
Q.9	a.	Explain the different types of JDBC drivers. CMRIT LIBRARY BANGALORE - 560 037	10	L2	CO3
	b.	Utilize transaction processing to execute a transaction in a JDBC program.	10	L3	CO3
OR					
Q.10	a.	List and explain the basic steps involved in database connection.	08	L1	CO3
	b.	What is resultset? Explain types of resultsets in JDBC.	06	L2	CO3
	c.	Identify the various statement objects in JDBC.	06	L3	CO3
