



Sixth Semester B.E./B.Tech. Degree Examination, June/July 2026
Advanced 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.	What is collection framework? Explain the methods defined by collection interface.	8	L1	CO1	
	b.	Explain accessing collection via an Iterator and random access interface.	7	L2	CO1	
	c.	Discuss user defined classes in collection.	5	L1	CO1	
OR						
Q.2	a.	Elaborate the concepts of maps and comparators in Java.	8	L2	CO1	
	b.	Discuss various collection algorithms.	6	L1	CO1	
	c.	What is an Interface? Explain various legacy classes.	6	L1	CO1	
Module – 2						
Q.3	a.	With a program explain string constructors.	8	L1	CO2	
	b.	Write a program to demonstrate string buffer and string builder.	8	L2	CO2	
	c.	Discuss string comparison methods with examples.	4	L1	CO2	
OR						
Q.4	a.	Write a program to demonstrate various string operations.	8	L2	CO2	
	b.	Explain data conversion using valueOf() and write a program for changing case of characters in a string.	8	L2	CO2	
	c.	Discuss character extraction methods in string.	4	L1	CO2	
Module – 3						
Q.5	a.	What is Swing? Explain two key swing features.	7	L1	CO3	
	b.	Elaborate the concept of MVC connection in swings.	3	L2	CO3	
	c.	Explain components, containers and swing packages.	10	L1	CO3	

OR

Q.6	a.	Discuss event handling and painting in swing.	8	L1	CO3
	b.	Explain the following: i) JLabel and Image Icon ii) JTextField iii) JToggleButton iv) Radio Buttons	12	L1	CO3

Module – 4

Q.7	a.	What is Servlet? Explain servlet life cycle.	7	L1	CO4
	b.	Discuss the importance of servlet API. Explain servlet packages.	7	L1	CO4
	c.	With a program, demonstrate reading servlet parameters.	6	L2	CO4

OR

Q.8	a.	Write a program for handling HTTP requests and responses.	7	L2	CO4
	b.	Explain various JSP tags.	8	L1	CO4
	c.	Discuss user sessions and cookies in servlet.	5	L1	CO4

Module – 5

Q.9	a.	Why we use JDBC? Explain various steps of JDBC process.	10	L1	CO5
	b.	Explain JDBC packages and statement objects.	10	L1	CO5

OR

Q.10	a.	With a diagram, explain JDBC driver types.	10	L1	CO5
	b.	Explain the following concepts in JDBC: i) Transaction processing ii) Result set and metadata iii) Data types	10	L1	CO5
