CBCS SCHEME - Make-Up Exam

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BIS402

Fourth Semester B.E/B.Tech. Degree Examination, June/July 2025
Advanced Java

ACHARYA INSTITUTE OF TECHNOLOGY BANGALORE MCA Library Date .....

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
1	a.	What is collection framework? Explain any four methods defined by the collection interface.	8	L1	CO1
	b.	Demonstrate ArrayList class for collection with an example.	6	L2	CO1
	c.	Write the syntax declaration of Queue interface and explain any four methods defined by Queue.	6	L2	CO1
		OR			
2	a.	Explain the constructors of Treeset with example.	6	L1	CO1
	b.	Explain Hashmap with example.	6	L2	CO1
	c.	What is Legacy classes? Explain the different legacy classes with a java program.	8	L2	CO1
		Module – 2			
3	a.	What is string in Java? Explain the different constructors of string class.	8	L2	CO2
	b.	Explain the difference between equals and = = with example.	4	L2	CO2
	c.	Explain the string comparision function with suitable example.	8	L2	CO2
		OR			
4	a.	Explain the following StringBuffer methods with an example : (i) append ( ) (ii) insert ( ) (iii) remove ( ) (iv) replace ( )	8	L2	CO2
	b.	Write a java program to sort names in bubble sort.	6	L3	CO2
	c.	Write a program to remove duplicate characters from a given string and display the resultant string.	6	L3	CO2
		Module – 3			
5	a.	What are the two key swing features? Explain.	4	L2	CO3
	b.	Write a simple swing application contains IFrame and ILabel and explain each line.	10	L2	CO3
	c.	Describe delegation event model. Write a program to demonstrate event handling in a swing.	6	L3	CO3

		OR			
6	a.	Describe the different types of swing buttons.	10	L2	CO3
	b.	What is difference between swing and AWT?	4	L2	CO3
	c.	Write a program to demonstrate a check boxes and Radio Button.	6	L3	CO3
		Module – 4			
7	a.	Explain the Life Cycle of Servlet.	6	L2	CO4
	b.	Write a Servlet program to accept parameter from HTML (username and password) and display.	8	L3	CO4
	c.	Describe the core interfaces that are provided in Jakarta.Servlet.http. package.	6	L2	CO4
		OR			
8	a.	What is JSP? Explain the various types of JSP tags with example.	6	L2	CO4
	b.	Describe the various steps in JDBC with code snippets.	8	L2	CO4
	c.	Explain sessions and cookies in JSP.	6	L2	CO4
		Module – 5			
9	a.	What is JDBC? Explain the different JDBC driver types.	10	L2	CO5
	b.	What is statement object in JDBC? Explain the following statement objects with example : (i) Prepared statement (ii) Callablestatement	10	L2	CO5
		OR			
10	a.	What is Connetion pooling? Explain connection pooling with neat diagrams with code snippets.	10	L2	CO5
	b.	Write a note on : (i) Transaction Processing in JDBC. (ii) Types of Exceptions occurred in JDBC.	10	L2	CO5

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