USN ☐☐☐☐☐☐☐☐☐☐

BIS402

Fourth Semester B.E./B.Tech. Degree Supplementary Examination, June/July 2024
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.

			M	L	C
		Module – 1			
Q.1	a.	What is collection framework? Explain the methods defined by the collection interface with an example.	10	L2	CO1
	b.	Implement a java program to illustrate storing user defined classes in collection.	10	L3	CO1
		OR			
Q.2	a.	What are comparators? Develop a java program to demonstrate the working of a comparator.	10	L3	CO1
	b.	Explain any four legacy collection in framework.	10	L2	CO1
		Module – 2			
Q.3	a.	What is a string? Explain the string constructors with suitable programming example.	10	L2	CO2
	b.	Write a java program to remove duplicate characters from a given string "JAVA J2EE" and display the resultant string.	10	L3	CO2
		OR			
Q.4	a.	Implement a java program to illustrate the use of different types of StringBuffer methods.	10	L3	CO2
	b.	Explain the following string methods with an example: i) getChars( ) ii) regionMatches( ) iii) Concat( ) iv) CompareTo( ) v) LastIndexOf( )	10	L2	CO2
		Module – 3			
Q.5	a.	What are Swings in Java? Explain two key swing features and also explain MVC architecture.	10	L2	CO3
	b.	Demonstrate a swing event handling application that creates 2 buttons Alpha and Beta and displays the text "Alpha pressed" when alpha button is clicked and "Beta pressed" when beta button is clicked.	10	L3	CO3

		OR			
Q.6	a.	Explain the following with example: i) JLabel and ImageIcon ii) JTextField.	10	L3	CO3
	b.	What is the difference between checkboxes and radiobuttons? Create a simple application that enables a user to select one of the following items: i) Radio1 ii) Radio2 iii) Radio3 iv) Radio4.	10	L2	CO3
		Module – 4			
Q.7	a.	What is servlet? Explain the life cycle of servlets.	8	L2	CO4
	b.	Write a Java servlet program that demonstrates how parameters can be accessed from HTML.	12	L3	CO4
		OR			
Q.8	a.	What is JSP? Explain the various types of JSP tags with example.	10	L2	CO4
	b.	A Java program to create and read the cookie for the given cookie name as "EMPID" and its value as "AN2356".	10	L3	CO4
		Module – 5			
Q.9	a.	Explain the different steps involved in JDBC with code snippets.	10	L2	CO5
	b.	Explain the four types of JDBC driver types.	10	L2	CO5
		OR			
Q.10	a.	Write a java program to insert data into student DATABASE and retrieve information based on particular queries (Explain update, delete, search).	10	L3	CO5
	b.	Write a short notes on: i) Resultset ii) Transaction processing.	10	L2	CO5

* * * * *