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## Fourth Semester B.E./B.Tech.Degree 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.

		Module – 1	M	L	C							
Q.1	a.	What is collection Frame Work? Explain the methods defined by the following	10	L2	CO1							
		Interfaces:										
		(i) Collection										
		(ii) List										
		(iii) Sorted Set										
		(iv) Queue										
	b.	What are Legacy Classes? Explain any four legacy classes of Java's collection Frame work with suitable program.	10	L2	CO1							
OR												
Q.2	a.	5	L3	CO1								
	b.	What are the various changes that collection framework underwent recently?	5	L1	CO1							
	c.	With an example program, explain how to store user-defined classes in collections.	10	L2	CO1							
		Module – 2	•	•	•							
Q.3	a.	Explain any two character extraction methods of string class.	5	L2	CO2							
	b.	Explain the various string constructors used in Java with examples.	10	L2	CO2							
	c.	Explain additional string methods.	5	L2	CO2							
Q.4	a.	Briefly describe special string operations with syntax and examples.	5	<b>L2</b>	CO2							
	b.	Explain the following methods of string buffer class with examples:	10	<b>L2</b>	CO2							
		(i) capacity ()										
		(ii) reverse ( )										
		(iii) insert										
		(iv) append ()	<u> </u>									
	c.	Explain any four string modification methods of string class.	5	L2	CO <sub>2</sub>							
0.5	1/4	Module – 3	10	т 2	002							
Q.5	a.	Explain the four types of the swing buttons, with demonstration program.	10	L3	CO3							
Janes and States and S	b. c.	Explain MVC connector Architecture.  What are the two key swing features? Discuss.	5	L2	CO3							
	5	L1	CO3									
Q.6		OR Explain the following:	10	L2	CO3							
Q.0	a.	(i) JLabel and Image Icon.	10	LL	003							
		(ii) JTextField										
	b.	Write a program to demonstrate a simple swing application.	10	L3	CO3							
Module – 4												
Q.7	a.	Explain the life cycle of Servlets.	5	L2	CO4							
	b.	Describe the core interfaces that are provided in Jakarta (Javax), Servlet, http	5	L2	CO4							
		package.										
	c.	Define JSP. Explain the different types of JSP tags by taking suitable example.	10	L2	CO4							
		OR										

Q.8	a.	Explain any two cookies method.	5	L1	CO4						
	b.	b. With a code, explain how to handle HTTP get requests and HTTP post									
	5	L4	CO4								
Module – 5											
Q.9	a.	Explain different steps involved in JDBC process with a code snippet.	10	L3	CO5						
	<b>b.</b> List and elaborate Database Metadata Object methods.										
	5	<b>L2</b>	CO5								
OR											
Q.10	a.	Mention all steps to create the association between the database and a	12	L3	CO5						
		JDBC/ODBC bridge.									
	b.	Explain the four types of JDBC drivers.	8	<b>L2</b>	CO <sub>5</sub>						