

Third Semester MCA Degree Examination, Dec.2023/Jan.2024 Advanced Java & J2EE

Time: 3 hrs.

5

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	Μ	L	С		
Q.1	a.	What is enum? Demonstrate the use of ordinal (), compareTo (), equals ()	10	L2	CO1		
		and values () method with enumeration.					
	b.	Define with example for each of the following :	10	L2	CO1		
		(i) Auto boxing.					
		(ii) Unboxing	-				
		(iii) Type wrapper					
		(iv) Marker Annotation.					
OR							
Q.2	a.	Explain built in Annotations in detail with necessary example snippets.	10	L2	CO1		
	b.	What is Annotation? Explain how do you obtain annotations at run time by	10	L2	CO1		
		use of reflection.					
	L	Module – 2					
Q.3	a.	Explain the following collection interfaces with example program:	10	L2	CO2		
		(i) Queue					
		(ii) Sorted set.					
	b.	Describe ArrayList class and explain with its constructors. Demonstrate its	10	L2	CO2		
		usage with an example program.					
		OR OR					
Q.4	a.	Discuss the following map classes with example :	10	L2	CO2		
		(i) Hash map					
		(ii) Tree map		м.			
	b.	List and explain any five collection algorithms. Demonstrate various	10	L3	CO2		
*		algorithms with an example program.					
	1	Module – 3			I		
Q.5	a.	Illustrate the use of following methods with an example:	10	L2	C01		
4	5	(i) insert					
	2	(ii) append					
		(iii) replace		p.			
		(iv) substring					
	b.	Differentiate string and string buffer classes. Write a program to	10	L3	C01		
		demonstrate different constructors of string class.					
		OR			~		
Q.6	a.	Explain the following string comparison methods with an example :	10	L.2	CO1		
		(i) equals () (ii) compareTo ()					
		(iii) $=$ (iv) equalsIgnoreCase					
	b.	Illustrate character extraction methods with examples.	10	L3	CO1		

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		Module – 4							
Q. 7	a.	Explain the life cycle of a servlet.	2 2	10	L2	CO1			
	b.	What is cookie? Explain the working of cookie in Java with code sr	nippets.	10	L2	CO1			
	OR A A								
Q.8	a.	Define JSP. Explain different types of JSP tags by taking examples.	suitable	10	L2	C01			
	b.	List and explain core classes and interfaces in JavaX.Servlet package	ge.	10	L2	CO1			
	J.								
Q.9	a.	Module 5 Describe the various steps of JDBC process with code snippets.	1	10	L4	CO3			
	b.	Explain prepared statement and callable statement in JDBC with ex	ample.	10	L4	CO3			
	OR			10	1.0	CO1			
Q.10	a.	List and explain JDBC Driver types.		10	L2	CO3			
	b.	What is Result set? Explain Scrollable and Updatable Result set with example.	in JDBC	10	L4	CO3			
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