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18CS644

(10 Marks)

Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Advanced Java and J2EE

TD' 0.1	
Time: 3 hrs.	Max. Marks: 100

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	Λ	Note: Answer any FIVE full questions, choosing ONE full question from each mod	dule.
		Module-1	
1	a.	Define Enumerations. Develop a Java program to implement the following built-	in methods
		and explain: (i) values() (ii) valueOf() (iii) ordinal() (vi) compareTo	
		(v) equals()	(10 Marks)
	b.	What is Wrapper class? Explain the following with examples:	(10 1/14/185)
	٠.	(i) Boxing	
		(ii) Un-Boxing	
		(iii) Auto-boxing	
		(iv) Auto-unboxing	(10 Marks)
			(101111111)
		OR	
2	a.	What are annotations? Explain the following Built-in annotations with examples:	
		(i) @Override	
		(ii) @Inherited	
		(iii) @Retention	
		(iv) @Supress Warnings	(10 Marks)
	b.	Explain the following with respect to annotations:	
		(i) Single member annotations.	
		(ii) Default values in annotations.	(10 Marks)
		Module-2	
3	a.	What is collection frame work? Explain the methods defined by the following inte	rfaces:
		(i) Collection	
		(ii) List	
		(iii) Sorted Set	
	1	(iv) Queue	(10 Marks)
	b.	Explain how collections can be accessed using an iterator with example.	(06 Marks)
	c.	Explain HashMap with example.	(04 Marks)
		OR	
4	0		
4	a.	Explain the following collection classes by constructing a JAVA program: (i) Linked List	
		(ii) Array List (iii) Tree Set	
		(iv) Hash Set	(10 Marks)
	b.	What is Legacy classes? Explain the different Legacy classes with a Java Program	(10 Marks)
	U.	Tribut is begacy chasses. Explain the different begacy classes with a Java Flogram	•

			Madula 2	
	5	a.	Module-3 What is string in Java? Explain the different constructors of string class. A	lso list the
	5	a.	difference between String Class and String Buffer class.	(10 Marks)
		b.	Explain the difference between equals and == with example.	(05 Marks)
		c.	Explain how to check the occurance of a substring in a given string.	(05 Marks)
			and the state of t	(05 Marks)
			OR	
	6	a.	Explain the following built in methods with respect to string buffer class:	
			(i) capacity ()	
			(ii) delete ()	
			(iii) replace ()	
			(iv) append ()	
		h	(v) substring ()	(10 Marks)
		b.	Explain any two character handling functions in string class.	(04 Marks)
		c.	Write a java program to sort names in Bubble sort.	(06 Marks)
			Module-4	
	7	a.	Explain the life cycle of servlet.	(06 Mayles)
	,	b.	Write a Servlet program to accept parameter from HTML (username & pass	(06 Marks)
			display.	(08 Marks)
		c.	Explain the role of Tomcat server in servlets.	(06 Marks)
				(0011241145)
			OR	
	8	a.	List the difference between JSP and Servlet. Also explain the different JSP	tags with
			example.	(10 Marks)
		b.	Explain sessions and cookies in JSP.	(06 Marks)
		C.	How arrays are defined in JSP?	(04 Marks)
			Market 5	
	9	a.	Module-5 What is JDBC? Explain the different JDBC driver types.	(10 Mayles)
		b.	What is statement object in JDBC? Explain the following statement objects with e	(10 Marks)
			(i) Preparedstatement	example.
			(ii) CollableStatement	(10 Marks)
			OR	
	10	a.	Explain ScrollableResultSet and UpdatableResultSet object in JDBC.	(10 Marks)
		b.	Explain transaction processing in JDBC.	(06 Marks)
		c.	Explain the types of exceptions occurred in JDBC.	(04 Marks)

			2 of 2	
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