CRCS SCHEME

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Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024												
		Sixth	Seme					< /		2023/Ja	an.202	,4
				Ac	dvan	iced .	Java	and	J2EE	3		
Time: 3 hrs.										**	Max. M	Iarks: 100
Note: Answer any FIVE full questions, choosing ONE full question from each module.												
Note: Answer any FIVE jun questions, choosing ONE jun question from each mounte.												
Module-1												
1	a.	Define 1	Enumera	itions I	Develo	n a Tava	nrogram	to impl	ement the	e followi	no huilt	in methods
•	and explain: (i) values() (ii) valueOf() (iii) ordinal() (vi) compareTo(
											/mparv -	(10 Marks)
	b. What is Wrapper class? Explain the following with examples:											(,
	٠.	(i)	Boxii		P			4	1			
		(ii)		oxing				X				
		(iii)		-boxing	5		Car	-				
		(iv)	Auto	-unboxi	ng							(10 Marks)
			4 3		_	4	4					
	OR											
2	a.	What are annotations? Explain the following Built-in annotations with examples:										
		(i)	_	erride		4			3			
		(ii)	_	nerited							y	
		(iii)	_	tention	The state of the s	*					ß.	
		(iv)	_	press W	About 10			*				(10 Marks)
	b.					spect to a		ns :	Ą			
		(i)	_	American Street, and a second		otations.	AND THE PARTY OF T			Y		(10 M/L-1)
		(ii)	Detai	iit valu	es in ai	nnotation	ıs.					(10 Marks)
			do			M	odule-2	,	"			
2	9	What is	collection	on fram	e work				fined by	the follow	wing int	erfaces ·
3	a.	(i)	CONTRACTOR OF THE PROPERTY OF	ection	C WOIN	. Lixpiai	ii the inc		Affica oy	the lone	wing into	criaces.
		(ii)	List	Ction				4				
		(fii)		ed Set	A	2						
	yl.	(iv)	Queu		08		Ca	1				(10 Marks)
	b. Explain how collections can be accessed using an iterator w								or with e	xample.		(06 Marks)
		Explain					•					(04 Marks)
					_							
			THE WAY	dis		G Y	OR					
4	a.	Explain				on classe	s by con	structing	g a JAVA	program	1:	
		(i)	Link	ed List	-	76						

- Array List Tree Set (ii)
- (iii)
- (10 Marks)
- (iv) Hash Set
 What is Legacy classes? Explain the different Legacy classes with a Java Program. (10 Marks)

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