BANCO





15CS553

## Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Advanced JAVA and J2EE

Time: 3 hrs. Max. Marks; 80

	N	ote: Answer any FIVE full questions, choosing ONE full question from each mo	dule.
		Module-1	
1	a.	What is enum? With a program, explain how enumeration is used as class.	(09 Marks)
	b.	What is autoboxing? Write a program to illustrate how auto boxing occurs in m	ethods and
		explain briefly.	(07 Marks)
		OR	
2	a.	What are annotations? List different built-in annotations. Explain any one.	(04 Marks)
	b.	Define Marker annotation and single member annotation with an example.	(04 Marks)
	c.	Write a program to obtain annotations at runtime by use of reflection.	(04 Marks) (08 Marks)
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		Module-2	
3	a.	What is collection framework? Explain collection interface and its methods.	(08 Marks)
	b.	Write a java program to create an ArrayList of objects of type string. Add any f	
		display size and contents of list. Remove any two strings and display size and con	
		OR	(08 Marks)
4	9	Write a note on TreeMap class.	(06 Marks)
	b.	What are comparators? Explain briefly.	(05 Marks)
	c.	Explain vector class with an example.	(05 Marks)
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		Module-3	
5	a.	What is string? Explain different string constructors.	(07 Marks)
	b.	Write a java program to sort array of strings using compareTo() function.	(05 Marks)
	C.	Write a short note on replace() and substring() methods of StringBuffer class.	(04 Marks)
		OR	
6	a.	Write a program in java to replace all the matching substring with a given string.	(06 Marks)
	b.	Explain indexOf() and lastIndexOf() methods of string class with an example.	(05 Marks)
	c.	Write a note on charAt() and setCharAt() functions of StringBuffer class.	(05 Marks)
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7		Module-4  Evals in Samulat life avale with an avample	(05 Mayles)
7	a.	Explain Servlet life cycle with an example.	(05 Marks)
	b.	Define Cookie. Write a Servlet program to add a cookie.  List different classes and interfaces of javax.servlet package.	(08 Marks)
	c.	Elst different classes and interfaces of javax.serviet package.	(03 Marks)
		OR	
8	a.	What is JSP? Explain different types of JSP tags.	(10 Marks)
	b.	What is session? Explain how to create session attribute using JSP.	(06 Marks)
		Module-5	
9	a.	Describe the various steps of JDBC with code snippets.	(10 Marks)
	b.	Write a note on Database Metadata and ResultSet metadata.	(06 Marks)
		OR	

OR

0 a. Write a note on different types of drivers.
b. What is ResultSet? How to make ResultSet Scrollable.
c. Write a Java program to execute database transaction.
(04 Marks)
(04 Marks)
(08 Marks)

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