GBCS SCHEME

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Fifth Semester B.E. Degree Examination, Aug./Sept. 2020 Advanced Java and J2EE

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Compare and contrast auto boxing and unboxing in Java with an example. (06 Marks)
 - b. Build a Java program to create an enumeration class of seasons and demonstrate usage of values () and valueOf() methods. (08 Marks)
 - c. What is an Annotation? Explain various retention policies for annotation in Java. (06 Marks)

OR

- 2 a. Explain the following methods of java.lang.Enum with an example
 - i) Ordinal ()
 - ii) compareTo()
 - iii) equals () (06 Marks)
 - b. What do you mean by Type Wrapper? Explain numeric type wrapper with an example.

 (06 Marks)
 - c. Explain the following Built-in Annotations with a Java code i) Override
 iii) Retention. (08 Marks)

Module-2

- a. What is collection framework? Explain any four methods defined by the collection interface.
 - b. Define legacy class -- vector with syntax declaration and demonstrate various vector operations. (06 Marks)
 - c. Explain the constructors of TreeSet with example.

(04 Marks)

- Create a class EMPLOYEE wi
- a. Create a class EMPLOYEE with two private string members: employee_id, employee_Name. Using LinkedList class, develop a Java program to add atleast 3 objects of above EMPLOYEE class and display the data in neat format. (08 Marks)
 - b. Demonstrate ArrayList class for collection with an example. (06 Marks)
 - c. Write the syntax declaration of Queue interface and explain any four methods defined by Queue. (06 Marks)

Module-3

- 5 a. Define String, Explain the different ways constructing string object. (06 Marks)
 - b. Explain and make use of the following string handling methods to modify a string.
 - i) substring ()
 - ii) concat ()
 - iii) replace ()
 - iv) trim() 🔨

(08 Marks)

c. Develop a Java program to count the occurrence of character in a given string. (0

(06 Marks)

		OR	
_	_	Differentiate between string and string Buffer explain reverse () method of s	tringBuffer
6	a.	with an example.	(08 Marks)
	b.	Explain the following character extraction methods: i) charAt() ii) to charArry(
	٠.	Explain the following character extraction and the contraction and	(06 Marks)
	c.	Explain insert () and append () stringBuffer methods with an example.	(06 Marks)
		Module-4	
7	a.	Explain the life cycle of a servlet.	(04 Marks)
	b.	Write a Java Servlet program to accept two parameters from webpage, find the s	um of them
		and display the result in webpage. Also give necessary html script to create web p	age.
			(10 Marks)
	c.	Explain how cookies can be handled using servlets.	(06 Marks)
		OD.	
•		OR Define JSP. Explain the different types of JSP tags by taking suitable example.	(10 Marks)
8	a.	What are Cookies? How Cookies are handled in JSP? Write a program create	
	b.	"Username" and Cookie value "abc". Also display stored Cookie in webpage.	(10 Marks)
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		Module-5	
9	a.	Explain the different step involved in JDBC process with a code snippet.	(08 Marks)
	b.	Explain the four types of JDBC drivers.	(08 Marks)
	c.	List and explain the three kinds of exceptions occurred in JDBC.	(04 Marks)
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		OR	
10	a.	Write a program to connect to database with following information:	
		Driver : JDBC/ODBC bridge	
		URL : "jdbc.odbc:Ex"	
		username "xyz"	
		passward "123"	
		Retrieve all rows with marks > 60.	
		Assume the following table:	
		Table Name : STUDENT	
		Fields: USN_Varchar (20), Marks_int, Name_Varchar (25)	(10 Marks)
	h	Explain the different types of statement object with example.	(06 Marks)
	6	Discuss the Scrollable Result set in JDBC.	(04 Marks)
	~	Discuss the bolomusic Acoust Set in 8220.	()