Sixth Semester B.E. Degree Examination, Jan./Feb. 2023

Advanced Java and J2EE

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.				
	Module-1			
1	a.	Explain the following methods of java.lang.Enum with an example:	(0075 1)	
		(i) ordinal() (ii) compareTo() (iii) equals()	(08 Marks)	
	b.	Briefly explain Numeric Type wrappers.	(06 Marks)	
	C.	What is an Annotation? Explain various retention policies for annotation in Java.	(06 Marks)	
	OR			
2	a.	What are Enumerations? Explain values() and valueOf() methods with a	n example	
		program.	(08 Marks)	
	b.	What is Autoboxing? Write a Java program that demonstrates autoboxing/unbox		
		inside expressions.	(06 Marks)	
	c.	Demonstrate single member annotations with an example.	(06 Marks)	
	Module-2			
3	a.	What is collection framework? Explain the methods defined by collection interfac	e.	
	-		(10 Marks)	
	b.	Explain the constructors of ArrayList class with an example of program.	(10 Marks)	
9120		OR Comments TransCot or	Martin	
4	a.	Explain constructor of TreeSet class and write a Java program to create TreeSet co	(10 Marks)	
	1_	What is Map? Explain the methods defined by Map interface.	(10 Marks)	
	b. What is Map? Explain the methods defined by Map interface. (10 Marks)			
Module-3				
5		Explain any two character extraction methods of String class.	(06 Marks)	
5	a.	Write a java program to sort array of Strings using compareTo() function.	(06 Marks)	
	-40	Explain indexOf() and lastIndexOf() methods of String class with an example.	(08 Marks)	
	C.	DAPIAM MICEAGI () and astronomy of String Grass with an order pro-	(
		OR		
6	0	Explain any four String modification methods of String class.	(10 Marks)	
6	a.	Explain the following methods of StringBuffer class:	(
	b.		(10 Marks)	
		(i) length() (ii) insert() (iii) reverse() (iv) replace()	(101.1.1.1.)	
Module-4				
7		What is a Servlet? Explain the Life Cycle of Servlets.	(07 Marks)	
1	a.	Write a program using servlet which contains HTML page with various color opti		
	b.	user choose 8 th particular color, the background of that page should be changed ac	cordingly	
		user enouse of particular color, the background of that page should be changed ac	(00) []	

(08 Marks)

Write a short note on Session Tracking.

(05 Marks)

OR

8 a. What is Cookie? List out the methods defined by Cookie? Write a Java program to add a Cookie. (10 Marks)

b. Define JSP. Explain different types of JSP tags by taking suitable example.

(10 Marks)

Module-5

9 a. Explain the four types of JDBC drivers.

(10 Marks)

b. Describe the various steps JDBC process with a code snippet.

(10 Marks)

OR

10 a. What is transaction processing? Write a Java program to execute a database transaction.

(10 Marks)

b. Explain the following:

(i) Callable Statement Object

(ii) Prepared Statement Object

(10 Marks)

CMRIT LIBRARY BANGALORE - 560 037

2 of 2