

Model Question Paper-1/2 with effect from 2021(CBCS Scheme)

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Sixth Semester B.E. Degree Examination Advanced Java Programming

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module -1			*Bloom's Taxonomy Level	COs	Marks
Q.01	a	What are Enumerations? Explain values() and valueOf() methods with an example program.	L2	CO1	08
	b	Demonstrate how enumerations can be applied as class types.	L2	CO1	06
	c	What do you mean by type wrapper? Explain numeric type wrapper with an example program in JAVA.	L2	CO1	06
OR					
Q.02	a	Explain how to obtain Annotations at run time by use of reflection.	L2	CO1	08
	b	Demonstrate single member annotations with an example.	L2	CO1	06
	c	What are Annotations? Explain the following Built-in annotations with program as an example @Override @inherited @Retention.	L2	CO1	06
Module-2					
Q. 03	a	What are Generics? Explain with program how Generics improves Type Safety.	L2	CO2	08
	b	Explain the concept of bounded types in Java generics, including both upper and lower bounds.	L2	CO2	06
	c	Explain with program, using wildcard arguments.	L2	CO2	06
OR					
Q.04	a	Explain the concept of a generic method in Java and illustrate how to create one with an example.	L2	CO2	06
	b	Explain with program how a generic class can act as a superclass and be a subclass.	L2	CO2	08
	c	Explain the issues associated with legacy codes in Java and how the introduction of generics in Java helps mitigate these issues.	L2	CO2	06

Module-3					
Q. 05	a	What is string in Java? Write a program that demonstrates four constructors of String class.	L2	CO3	06
	b	Explain how to modify a string by using following methods with suitable examples. i) substring() ii) concat() iii) replace() iv) trim()	L2	CO3	08
	c	Write a program to remove duplicate characters in a given string and display new string without any duplicates.	L3	CO3	06
OR					
Q. 06	a	Differentiate between equals () and == with respect to string comparison.	L2	CO3	06
	b	Explain the following methods of stringBuffer class with suitable examples i) append() ii) insert() iii) reverse() iv) replace()	L2	CO3	08
	c	Explain how to check the occurrences of a substring or characters in a given string.	L2	CO3	06
Module-4					
Q. 07	a	Explain the Life cycle of Servlets.	L2	CO4	04
	b	Write a Java servlet program to accept two parameter from webpage, find the sum of them, display the result in web page. Also give necessary html script to create web page.	L3	CO4	08
	c	What are cookies? How cookies are handled in JSP? Write a program to create with name "Username" and cookie value "xyz". Also display stored cookie in webpage.	L3	CO4	08
OR					
Q. 08	a	Explain different JSP tags with a program to demonstrate all tags.	L2	CO4	08
	b	Explain how parameters can be accessed from HTML using JSP.	L2	CO4	06
	c	Explain how cookies can be handled using JSP.	L2	CO4	06
Module-5					
Q. 09	a	Explain the four types of JDBC drivers.	L2	CO5	06
	b	Describe the various steps of JDBC with code snippets.	L2	CO5	10
	c	Explain the different types of exceptions occurred in JDBC.	L2	CO5	04
OR					
Q. 10	a	Explain : i) Callable statement object ii) Prepared statement object	L2	CO5	08
	b	Write a Java program to execute a database transaction.	L2	CO5	06
	c	What is Result set? Explain types of Result sets in JDBC.	L2	CO5	06