GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VI(NEW) EXAMINATION – WINTER 2022

Subject Code:2160707   **Date:14-12-2022**
Subject Name:Advanced Java
Time:02:30 PM TO 05:00 PM   **Total Marks:70**
Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Simple and non-programmable scientific calculators are allowed.**

			MARKS
Q.1	**(a)**	Discuss the difference between the Socket and ServerSocket class.	**03**
	(b)	Explain different stages of JSP Page Life Cycle.	**04**
	(c)	List different types of JDBC drivers and explain difference between Type-1 and Type 4 Driver with Code Snippet.	**07**
Q.2	**(a)**	Explain Request and Response object in Servlet.	**03**
	(b)	List the JSTL core tags and explain any two with example.	**04**
	(c)	Write a client-server program using UDP where the client sends 10 numbers and server responds with the numbers in sorted order.	**07**
		OR	
	(c)	Write a Servlet that takes two numbers as an input and display Multiplication of that no's. Also write web.xml description for the servlet.	**07**
Q.3	**(a)**	What is filter? List Different filter interfaces.	**03**
	(b)	List the JSTL core tags and explain any two with example.	**04**
	(c)	Explain the use of the PreparedStatement object of the JDBC with an appropriate example.	**07**
		OR	
Q.3	**(a)**	Differentiate between doGet() & doPost() methods.	**03**
	(b)	What is Request Dispatcher? What is the difference between Request dispatcher's forward() and include() method?	**04**
	(c)	Consider Bank table with attributes AccountNo, CustomerName, Balance, Phone and Address. Write a database application which allows insertion, updation and deletion of records in Bank table. Print values of all customers whose balance is greater than 20,000.	**07**
Q.4	**(a)**	List the JSF facelets tags and explain any two.	**03**
	(b)	Discuss CallableStatement with example	**04**
	(c)	What is OR mapping? Give an example of Hibernate XML mapping file.	**07**
		OR	
Q.4	**(a)**	Explain ResultSetMetaData with suitable program.	**03**
	(b)	Explain JSF life cycle phases.	**04**
	(c)	Explain various Session tracking mechanisms in servlet with example.	**07**
Q.5	**(a)**	What do you mean by MVC architecture? Explain its role in modern applications with its advantages	**03**

	(b)	Discuss JSP Exception Handling	**04**
	(c)	What is ResultSet interface. Write various method for ResultSet interface. Write a code to update record using this interface.	**07**

OR

Q.5	**(a)**	List the JSF validation tags and explain any two.	**03**
	(b)	Explain following tags in JSTL with example : (i) Core (ii)XML	**04**
	(c)	Explain architecture of Hibernate	**07**

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