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Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION - SUMMER 2022

Subject Code:2160707 Date:03/06			/2022
Time		ame:Advanced Java 0 AM TO 01:00 PM Total Marl	ks: 70
inger u	1. A 2. M 3. F	ttempt all questions. Iake suitable assumptions wherever necessary. igures to the right indicate full marks. imple and non-programmable scientific calculators are allowed.	
Q.1	(a) (b) (c)	How MVC architecture is better than conventional approach? List out and describe advantages of J2EE Why Native JDBC api driver is better than other type of JDBC Driver? Write jdbc code to connect, select and print resultset data of employee database on browser using servlet.	03 04 07
Q.2	(a) (b) (c)	Discuss the difference between the Socket and ServerSocket class. Discuss the use of GET and POST method in servlet with code snippet. When callable statement is used? Write java servlet to store data in database using callable statement. OR	03 04 07
	(c)	List out methods used in servlet lifecycle. Write a servlet which retrieve students marksheet data based on student registration number entered from result.html html page and print on browser screen.	07
Q.3	(a) (b)	What is session? List the different ways to manage the session. Explain difference between ServletConfig and ServletContext object.	03 04
	(c)	Elaborate BLOB Data type. Write java servlet to insert employee personal data with photograph using BLOB data type. OR	07
Q.3	(a)	Explain Following JSP directive (i) page (ii) include (iii) taglib with attribute, description.	03
	(b) (c)	Discuss JSP life cycle phases. List the JSF validation tags and explain any two.	04 07
Q.4	(a) (b)	List advantages of JSP over Servlet Discuss functionality of Java Beans. Write a JSP Page to demonstrate Java Bean.	03 04
	(c)	Draw and explain Spring Framework Architecture. OR	07
Q.4	(a) (b) (c)	Discuss JSP Exception Handling. Explain JSP Object scope: (i) Page (ii) Request (iii) Session (iv) Application with example. Write a client server socket program to retrieve server time on client	03 04 07
	(0)	request.	U/
Q.5	(a) (b)	Write and discuss web.xml file parameter. Write servlet which displayed following information of client. I. Client Browser II. Client IP address	03 04

III. Client Port No

IV	7.	Query	String	name	and	values
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(c) Discuss Hibernate architecture. Write appropriate java classes/code to **07** retrieve student data from database.

OR

Q.5	(a)	Write lines of code in JSP for following.	03
		I. Session read and write	
		II. URL rewriting sending and retrieving parameter(s)	
		III. URL redirection	
	(b)	What is HQL? How does it different from SQL?	04
	(c)	Write a client server socket program to retrieve file from server on client	07
		request. If file is not available valid message is sent to client.	
