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Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code:3160707 Date:10/06 Subject Name:Advanced Java Programming Time:10:30 AM TO 01:00 PM Total Mar Instructions:		22	
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Histi		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.	
Q.1	(a)	What do you mean by MVC architecture? Explain its role in modern applications with its advantages.	03
	(b)	What is Servlet? Explain the life cycle methods of it.	04
	(c)	Explain the use of PreparedStatement with appropriate example.	07
Q.2	(a)	Compare Socket with ServerSocket.	03
	(b)	Compare the types of JDBC drivers?	04
	(c)	Explain JSP inbuilt objects with their use in application. OR	07
	(c)	Write a java program where client sends a string as a message and sever counts the characters in the received message from client. Server sends this value back to the client. Server should be able to serve multiple clients simultaneously.	07
Q.3	(a)	What is a session? List out various session management techniques.	03
	(b)	Explain the purpose of RequestDispatcher using the methods forward () and include ().	04
	(c)	What are cookies? Demonstrate the use of cookies in servlet. OR	07
Q.3	(a)	Which action tags are used to access the JavaBeans from a JSP page?	03
	(b)	What is Expression Language EL in JSP explain with suitable example program?	04
	(c)	What is session? Demonstrate the use of Session in JSP.	07
Q.4	(a)	What is JSF? List and explain its features.	03
	(b)	What is JSTL? Explain the core tags of the SQL tag library.	04
	(c)	Discuss various stages of JSP life cycle.	07
		OR	
Q.4	(a)	What is a custom tag? Explain the life cycle of tag handler.	03
	(b) (c)	What is filter? Explain the configuration of filter using deployment descriptor. Discuss JSF life cycle phases.	04 07
Q.5	(a)	What is hibernate? What are the benefits of using it?	03
	(b)	What is HQL? How does it different from SQL? List its advantages.	04
	(c)	Explain the Spring Web MVC framework controllers	07
0.5	(5)	OR What are the different been seems in arrive?	02
(l	(a) (b)	What are the different bean scopes in spring? What is Spring Bean? How can you create bean in Spring boot?	03 04
	(c)	What is OR mapping? Explain the components of hibernate.cfg.xml file.	07
