GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI EXAMINATION - SUMMER 2025

Subject Code: 3160707 Da	te: 30-05-2	025
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Subject Name: Advanced Java Programming

Time: 10:30 AM TO 01:00 PM	Total Marks:70
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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.

			MARK
Q.1	(a) (b)	Discuss the use of execute (), executeUpdate () and executeQuery () methods. Explain the following classes with their use. I) URLConnection class II) DatagramSocket class IV) ServerSocket class	03 04
	(c)	Design a form to input details of an employee and submit the data to a servlet. Write code for servlet that will save the entered details as a new record in database table Employee with fields (EmpId, EName, Email, Age).	07
Q.2	(a)	Compare JSP and Servlet.	03
	(b)	Explain various Session tracking mechanisms in servlet with example.	04
	(c)	What is JDBC? List the different types of JDBC drivers. Compare the various driver types for their advantages and disadvantages.	07
	(c)	What is filter? What is its use? List different filter interfaces with their important	07
	(0)	methods.	0.
Q.3	(a)	What is Servlet? List and explain various stages of Servlet life cycle.	03
	(b)	List JSP implicit objects and explain any two in detail.	04
	(c)	Explain JSP page directives with example. OR	07
Q.3	(a)	Explain the usage of InetAddress class.	03
C	(b)	Explain JSP life cycle phases.	04
	(c)	List and Explain JSP Action Tags with example.	07
Q.4	(a)	What is the JSF facelets? Explain any two facelets tags.	03
	(b)	Briefly explain JSF Converter tags?	04
	(c)	What is Hibernate? List Advantages of Hibernate over JDBC	07
0.4	(a)	OR Write a consider that madine at measurests alternatively to ISD makes normed add and even	02
Q.4	(a) (b)	Write a servlet that redirect requests alternatively to JSP pages named odd and even What is HQL? Write difference between HQL and SQL.	03 04
	(c)	What is JSF tag library? Explain any four-html tag.	07
Q.5	(a)	What is Request Dispatcher? What is the difference between Request dispatcher's	03
	()	forward () and include () method?	
	(b)	Briefly explain spring bean life cycle.	04
	(c)	What is MVC architecture? Explain Spring architecture with neat sketch. OR	07
Q.5	(a)	What is difference between statement and prepared statement interface.	03
~. ~	(b)	Draw and explain the architecture of Hibernate.	04
	(c)	What is ORM? Explain object/relational mappings in hibernate.	07
