

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2024

Subject Code:3160707

Date:24-05-2024

Subject Name:Advanced Java Programming

Time:10:30 AM TO 01:00 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) Explain URL and URLConnection class with example.	03
(b) Explain Statement and PreparedStatement with example.	04
(c) What is Request Dispatcher? What is the difference between Request dispatcher's forward() and include() method? Explain it in detail with program.	07
Q.2 (a) What is Deployment descriptor (web.xml) in servlet? Explain with code.	03
(b) What is JDBC? Explain the types of JDBC drivers.	04
(c) Write a client-server program using TCP/UDP sockets to echo the message send by the client.	07
OR	
(c) Write a TCP program in which client sends string from its standard input to the server. The server reads the string, converts the string into upper case and sends back to client	07
Q.3 (a) Explain difference between ServletConfig and ServletContext object	03
(b) Explain JSP life cycle phases.	04
(c) What is CallableStatement? Explain how to use it to call a stored procedure with proper example.	07
OR	
Q.3 (a) Compare JSP and Servlet.	03
(b) Explain Servlet Life Cycle with example and demonstrate every state in detail.	04
(c) Write a Login servlet. Take input username and password from html file login.html and authenticate the user. Write the web.xml.	07
Q.4 (a) Explain any three JSTL Core tags.	03
(b) What is Filter? Explain Filter API.	04
(c) What is session? List and explain different ways to manage the session.	07
OR	
Q.4 (a) What is difference between include directive and jsp:include action tag?	03
(b) What is HQL? Write difference between HQL and SQL.	04
(c) Draw the JSF request processing life cycle and briefly give the function of each phase.	07
Q.5 (a) What is ORM? Explain object/relational mappings in hibernate.	03
(b) What is the JSF facelets? Explain any two facelets tags.	04
(c) Explain architecture of Spring MVC Framework.	07
OR	
Q.5 (a) What is Dependency Injection?	03
(b) List the JSF validation tags and explain any two.	04
(c) Explain Hibernate architecture in detail.	07
