

Advance Java Technology

Important Questions

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Chapter 1

1. Write a Java Client and Server Program to get date time from server on the client request.
2. Write an UDP client and server program to do the following: Client send any string and server respond with its capital string.
3. Write a client server program using TCP where client sends two numbers and server responds with sum of them.
4. Discuss the URL and URLConnection class with their use in network programming.
5. Write a TCP *or* UDP client and server program to do the following: client> java client localhost/IP Port <enter> Enter text: This is my text to be changed by the SERVER <enter> Response from server: revres EHT YB DEGNAHC EB OT TXET YM SI SIHt client> exit.
6. Write a client program to send any string from its standard input to the server program. The server program reads the string, finds number of characters and digits and sends it back to client program. Use connection-oriented or connection-less communication.
7. Explain Socket, ServerSocket, InetAddress classes. Write a java program to find an IP address of the machine on which the program runs.
8. Write a client-server program using TCP sockets to echo the message send by the client.
9. Use of the URL class.

Chapter 2

1. What is JDBC driver? What is its role? List the types of drivers and explain Working of type -3 and type-4 driver
2. Explain Prepared statements with suitable example.
3. What is JDBC? What are the various types of JDBC Driver? Write code snippet for each type of JDBC connection.
4. Give the use of Statement, PreparedStatement and CallableStatement object and Write code to insert three records into student table using PreparedStatement (assume student table with Name, RollNo, and Branch field).
5. List out different types of JDBC driver and explain each.
6. Explain following in brief: (1) JDBC Architecture
7. What is CallableStatement? Show that how to use it to call a stored procedure running at database layer.
8. Describe following with proper illustrations:
(1) Type-4 JDBC driver
9. Explain JDBC driver types. Write a Java Bean to connect to database and insert in the database. Query will be passed as a message to bean.
10. Write a JDBC program to insert and retrieve photo in database.
11. Explain various types of JDBC drivers and comment on selection of driver.
12. Explain the use of CallableStatement and PreparedStatement with example.
13. 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.
14. Explain the use of the PreparedStatement object of the JDBC with an appropriate example.

15. Explain the JDBC URL with appropriate examples.

Chapter 3

1. What are cookies and sessions? How can you use them in Java EE? Compare them
2. Develop any Servlet application which demonstrates use of session management
3. Explain Servlet life cycle & importance of context object.
4. Explain Servlet Life Cycle with example to demonstrate every state
5. Write a Java Servlet to print BE Semester 7 Marksheet of entered enrollment number by user using JDBC.
6. What is filter? What is its use? List the different filter interfaces with their important methods.
7. List out different types of servlet event and explain it.
8. Write a servlet which accept two numbers using POST methods and display the maximum of them.
9. Write a web application using servlet to compute an area of a circle. Get the radius from the client. Write necessary web.xml file.
10. What is servlet filters? Give the necessary API for filters and explain their use.
11. Describe following with proper illustrations:
 - (1) Servlet events
12. What is servlet configuration? Show it with example web.xml file.
13. Enlist and explain the need of filters with a program.
14. Explain Servlet life cycle & importance of context object.
15. Explain event handling in Java Servlet with example(s).
16. Discuss Servlet life cycle methods. Explain role of web container.
17. Develop any Servlet application which demonstrates use of session management.
18. Describe the servlet life cycle with life cycle methods.
19. Write a Web application using servlet to find the sum of all the digits of an input integer.
20. What is XML tag library? Explain the XML core tags and show their use.
21. What is doFilter() method? What are its parameters? Give its use with proper example.

Chapter 4

1. Explain JSP tag library with examples.
2. Explain the action tags used to access the JavaBeans from a JSP page with example
3. Explain transaction handling using JSTL
4. Differentiate : Java Bean and basic java class and Explain Java Bean Architecture and Show the use of JSP inbuilt objects: request and response, with their use in application
5. Explain JSP (i) page (ii) include (iii) taglib directive with attribute, description. Also write example of java snippet for each directive.
6. Explain JSP Object scope: (i) Page (ii) Request (iii) Session (iv) Application with example.
7. Discuss the Expression Language feature of JSP and mention various implicit objects available in the EL with description.
8. Explain various tags in JSTL with example : (i) Core (ii)XML
9. Write JSP Page to demonstrate shopping cart using session feature of JSP
10. Explain various tags in JSTL with example : (i)SQL (ii) Functions.

11. What is session object in JSP? Explain it with example.
12. Explain JSP tag library with example.
13. Explain Life cycle of JSP.
14. Write JSTL program to parse and display text of XML file.
15. Explain the JSP core tag library.
16. Show the use of JSP inbuilt objects: request and response, with their use in application.
17. Explain the JSP XML tag library.
18. Show the use of JSP page directive tag with its attributes.
19. Write line(s) of code in JSP for following. **07**
 - I. Session read and write
 - II. URL rewriting sending and retrieving parameter(s)
 - III. URL redirection
 - IV. Print "hello world" as output
 - V. Include the other JSP file statically
 - VI. Expression to display date as output
 - VII. Method of setting the JSP parameters to use in JSTL
20. Enlist and explain the purpose and use of action tags in JSP.
21. Explain transaction handling using JSTL.
22. Write a JSTL program to parse & display text of XML file.
23. Write a JSP page to display your semester mark sheet. Give the necessary files to deploy it.

Chapter 6

1. Explain Hibernate Architecture.
2. Explain Hibernate Architecture and Object Relation Mapping in Hibernate with java code and required XML files.
3. Draw and explain the architecture of Hibernate.
4. Give and explain the architecture of Hibernate.
5. How can you implement OR Mapping in Hibernate? Give an example.
6. Write a note on hibernate.

Chapter 7

1. Explain MVC Architecture.
2. Explain following in brief: (1) MVC
3. Explain the need of MVC architecture. Write swing code to create toggle button and checkbox and handle their click event. Differentiate between toggle button and check box.
4. Give significance of MVC architecture in building n-tier application. Explain in detail.
5. What do you mean by MVC architecture? Explain its role in modern applications and list its advantages.
6. Explain the OR mapping in hibernate.