

Internet Programming Question bank

1.Introduction to Web Technology

1. Explain <audio> and <video> controls of HTML5 with suitable example.
2. Explain any 5 semantic tags of HTML5 with examples.
3. Differentiate between HTML and HTML5.
4. Explain the working of rowspan and colspan of table when used in HTML with suitable example.
5. Write a code to Drag an image from outside the box and Drop it inside the box.
6. List and Explain the 3 ways to add style sheet(CSS) to an HTML web page with suitable examples.
7. Explain CSS3 Animation with example. Explain CSS Animation properties.
8. Explain how shadow effect can be applied on text using CSS with suitable example.
9. What is inheritance in CSS?
10. What is the difference between class selector and ID selector?
11. Write an external style sheet and link it with HTML code. The stylesheet should include the following
 - i. The webpage will have the background image “img1.jpg”
 - ii. The table headings will have red background colour.
 - iii. Background colour of alternate paragraphs are different.
12. The hyperlinks on the paragraphs will not have underlines. Create an external Stylesheet and link it to an HTML form, the stylesheet should contain the following
 - i. An header in text with Red Text colour and Yellow background colour.
 - ii. A double lined border table.
 - iii. The table should have 5 rows and 3 columns.
 - iv. In the First column Sr. No. of the product, Second column Image with hyperlink and Name of the product, and the Third column the description of the product.
13. What is HTTP? Describe structure of HTTP request and response message.
14. Explain basic internet protocols which are essential for transferring data and sending email.

2. Front End development

1. Explain the Document Object Model(DOM) in detail with example.
2. Explain built-in objects in JavaScript.
3. What are the benefits of using JSON over XML.
4. Explain event handling in JavaScript with suitable example.
5. Explain Exception handling in JavaScript with suitable example.
6. Explain how JavaScript can hide HTML elements with suitable example.
7. Write a JavaScript code to accept a name and password from user and validate the data as follows:
 - a. Name should not be empty.
 - b. Password should not be less than 6 characters.
8. Write a JavaScript that reads ten numbers and displays the count of negative numbers, the count of positive numbers and the count of zero from the list.
9. Create a form which has the following fields 'Name' , 'Age' , 'Email ID' , 'Password'. Using JavaScript validate each field as follows
 - i. Name should be between A-Z
 - ii. Age should be between 0-100
 - iii. Email ID should contain '@'
 - iv. Password should contain 1 Upper case, 1 Digit , 1 Special character and length should be minimum 8.
10. Write a JavaScript to check password and confirm password are same or not.
11. Write code to process online Alumni information for your college. Create forms to get name, address, date of birth , and email id. Write JavaScript to validate the following:
 - v. User has filled all the fields prior to form submission.
 - vi. Valid email-id (with '@' and '.')
 - vii. Age validation using DOB (≥ 22 years)

3. Back End development

1. Explain Servlet life cycle with neat diagram.
2. What is session tracking? Show how session tracking is achieved using cookies. List and Explain Session tracking techniques.
3. What are cookies? And how do cookies work in services?
4. What is session in servlet and list different ways to handle it.
5. Draw and Explain Servlet Architecture.
6. Write a short note on JDBC.
7. Explain the steps to connect Java Application to database using JDBC.
8. Write a short note on JSP. Explain life cycle of JSP.
9. Write a JSP program to perform basic arithmetic operations, Addition, Subtraction, Division and Multiplication.
10. Write a program in JSP to display system date and time.

4. Rich Internet Application(RIA)

1. What are the characteristics of Rich Internet Application(RIA).
2. Draw a diagram of AJAX application model and Traditional application web model and compare them.
3. What is AJAX? Explain its role in web application.
4. Explain AJAX Web Application with neat diagram.
5. Explain methods that are used to send request to server using AJAX.
6. Write the AJAX code to read from the text file and displaying it after clicking of a button.

5. Web Extension: PHP and XML

1. Explain the different datatypes of PHP.
2. Discuss about various control structures used in PHP. Give suitable examples for each.
3. How to define variable in PHP and define scope of variables.
4. Explain how form validation works in PHP, with suitable example.
5. If you wanted to send sensitive information like password to the backend which among the GET and the POST method in PHP would you use, justify your answer and distinguish between these methods.
6. Explain the features of PHP and Write a PHP program to print factorial of a number.

7. Explain the structure of XML documents with example.

8. What is DTD? Explain internal DTD and External DTD.

9. What is use of XML HttpRequest object?

10. Create a well formed XML document to maintain library catalogue. It should contain the name of the book, author, publisher and year of publishing, format it in a tabular manner using XSLT.

11. An e-commerce website would like to accept the below mentioned data and would like to transfer the data using XML,

- i. Product ID
- ii. Product Name
- iii. Product Cost
- iv. Purchase Date
- v. Purchased by
- vi. Seller Name

Write the HTML, XML code and DTD for the given data.

6. React js

1. What are the features of React js.

2. Discuss the advantages of React js.

3. What is JSX? Explain its attributes with examples.

4. Write a code in React js to display "Hello World".

	1	2	3	4	5	6
2024 May	25	25	30	15	15	15
2023 Dec	30	25	25	15	15	15
2023 May	35	25	25	10	25	5
2022 Dec	25	25	25	15	20	15
Last 4 Avg	30	25	25	15	20	15
*2022 May	25	20	20	10	20	5
Total	140	120	125	65	95	55