

CSE 2258- Web Technologies Question Bank

Module-1

2Mark questions:

1. Define the World Wide Web (WWW).
2. What is a web browser? Give two examples.
3. What is the primary function of a web server?
4. Explain the term "Internet."
5. What is the purpose of hypertext links in a web page?
6. What is an HTML tag? Provide an example.
7. Explain the purpose of the <head> element in an HTML document.
8. What is the purpose of the tag?
9. How do you create a paragraph in HTML?
10. How do you insert an image in an HTML document?
11. What is the purpose of the alt attribute in the tag?
12. What HTML tag is used to create a hyperlink?
13. What attribute is used to specify the URL in a hyperlink?
14. What is the difference between and tags?
15. How do you create a list item in HTML?
16. What tag is used to create a table in HTML?
17. How do you define a table row in HTML?
18. What is the purpose of the <form> tag in HTML?
19. Name two types of input elements in HTML forms.
20. What are all the different types of servers?
21. Difference between GET and POST method
22. Write a HTML code to get the input (more than one line) from the user?
23. What is pre tag?
24. What is an align attribute?
25. What is <bdo> tag?
26. What is strike tag?
27. What are the two types of scripting languages?
28. What is client side scripting language?give examples
29. What is server side scripting language?give explames
30. What is the difference between programming language and scripting language?
31. What is markup language?
32. Difference between Static and Dynamic webpage.
33. Which tag is used to create the title of the table?
34. Which tag is used to create the title of the form?
35. What is fieldset?
36. What is method and action attribute?
37. What is required attribute?
38. What is placeholder attribute?
39. Write HTML code for the below design:

Course code	course name
CSE 2258	Web Technologies
CSE 2259	Web Technologies lab

40. What are all the different types of headers in HTML?
41. What is void elements in HTML?
42. What is the comment line in HTML?
43. Difference between <title> tag and title attribute?

44. What are all the two possible values to the dir attribute?
 45. What is the tag to be used for displaying the monospaced font in the webpage?
 46. What are the two types of HTML elements?
 47. Difference between div and span tag?
 48. How you can highlight the text in webpage?
 49. What are the different types of list in HTML?
 50. Write HTML code for the below design:

1. Fruits

- Apple
- banana

2. Vegetables

- Carrot
- tomato

51. What is definition list? What are all the tags to be used ?
 52. What is start attribute in the ordered list?give example.
 53. Difference between cellpadding and cellspacing?
 54. What is rowspan and colspan?
 55. Write HTML code for the below design:

8.45-9.45	9.45-10.40	B
CSE2258	CSE2259	R
CSE2259	CSE2258	E A K

56. What is href attribute?
 57. How do you keep image as link?
 58. Write HTML code for the below design:

Address:

Program:

59. What is pattern attribute?
 60. Difference between frames and iframes?

10 Mark questions:

1. Assume that you have been appointed as a web developer and as a testing task, you have been given with a task to generate a 12th grade card format for a school. Write a html code to design a web page for the same as given below. Observe the screenshot carefully and implement the same using required tags

STATE BOARD OF SECONDARY EDUCATION

Higher Secondary Examination – Class XII

Academic Year: 2024–2025

Student Name: Alex George
Roll No.: 1OXF1202453
Reg. No.: 08/12/2022
School: Presidency Senior Secondary School
Date of Birth: 15 Mar 2007
Center: Bengaluru

MARKS STATEMENT

Sl	Subject	Max Marks	Theory	Practical	Total	Grade
1	English	100	82	—	82	A2
2	Mathematics	100	91	—	91	A1
3	Physics	100	76	19	95	A1
4	Chemistry	100	73	20	93	A1
5	Computer Science	100	78	20	98	A1
6	Second Language (Hindi)	100	88	—	88	A2
Grand Total		600	—	—	547	—

Percentage: 91.17%

Result: PASS

Division: Distinction

Issue Date: 04 Sep 2025

Remarks: Outstanding performance with excellent scores in Science stream. Eligible for scholarship consideration.

2. A university is conducting its **online admission process** for undergraduate programs. As part of the admission procedure, students must fill out an online form with their personal details, academic qualifications, and upload the required documents. The university needs the following information:

- Student's personal details (Name, Date of Birth, Gender, Contact Info, Address)
- Course they wish to apply for
- Their 12th Standard marks (%)
- A passport-size photo (image file)
- Their marks card (PDF or image file)
- A password for login after successful registration

Once the student submits the form, they should be redirected to a **welcome page** that confirms successful registration.

Expected Output is given below:

College Admission Registration

First Name:	<input type="text"/>
Last Name:	<input type="text"/>
Date of Birth:	<input type="text"/> dd-mm-yyyy
Gender:	<input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Other
Email:	<input type="text"/>
Phone Number:	<input type="text"/>
Address:	<input type="text"/>
Hobbies:	<input checked="" type="checkbox"/> PAINTING <input type="checkbox"/> GAME <input type="checkbox"/> SLEEP <input type="checkbox"/> READING
Select Course:	<input type="text"/> --Select--
12th Marks (%):	<input type="text"/>
Upload Passport Size Photo:	<input type="button"/> Choose File No file chosen
Upload 12th Marks Card:	<input type="button"/> Choose File No file chosen
Create Password:	<input type="text"/>
<input type="button"/> Submit <input type="button"/> Reset	

Welcome to Our College!

Your admission form has been successfully submitted along with photo and marks card.

We will review your details and contact you soon.

3. A local ~~mobile store~~ wants to create a **simple online catalog** of the phones they sell. The store owner wants a single web page that has:

- A **header** with the store's name.
- A **table** in the middle showing a list of mobiles (at least 5 models).
 - The first column should display a **serial number**.
 - The second column should show a **small image of the mobile** (clickable).
 - When the image is clicked, it should open the product's sales page (Flipkart, Amazon, or official site) in a new tab.
 - The third column should display the **price** of the phone.
- A **footer** with copyright details.
- Horizontal lines should separate the header, content, and footer.

Expected Output is given below:

 **Welcome to Our Mobile Store**

Available Mobiles

Serial No.	Mobile	Price
1	 iPhone 14	₹65,999
2	 Samsung Galaxy S23	₹74,999
3	 Google Pixel 7a	₹43,999
4	 OnePlus Nord CE 3	₹27,999
5	 Redmi Note 12 Pro	₹21,999

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4. A restaurant called “**Spice Garden**” wants to create a simple website to showcase its menu and specials. The owner requests a layout that divides the page into **four frames**:

- **Top Frame:** Restaurant name and tagline.
- **Bottom Frame:** Footer with contact details and copyright.
- **Left Frame:** Menu categories (Starters, Main Course, Desserts, Drinks).
- **Right Frame:** Main content area where today’s specials or detailed menu items are displayed when a user clicks on a category.

Design and implement the above restaurant website using **HTML frames**. The website should contain a header frame, footer frame, a left navigation menu frame, and a right content frame that displays menu details and food images.

Expected Output is given below:

 Spice Garden Restaurant

Delicious food, unforgettable taste!

Menu Categories

- [Starters](#)
- [Main Course](#)
- [Desserts](#)
- [Drinks](#)

Today's Specials 

Welcome to Spice Garden! Here are our chef's special dishes for today:

- Butter Chicken with Naan
- Paneer Tikka Masala
- Gulab Jamun
- Mango Lassi




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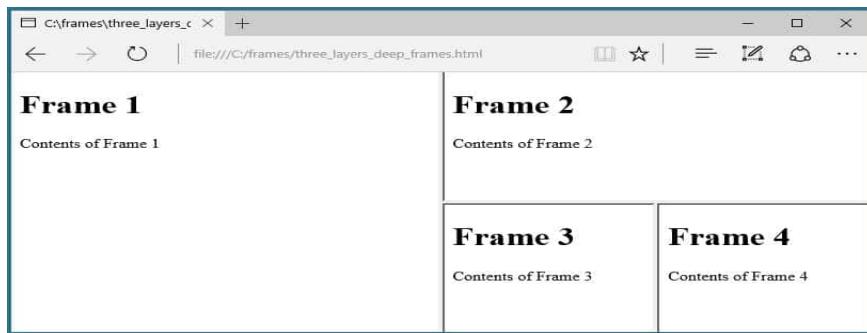
5. Ravi opens his browser and types “*climate change effects*” in the Google search bar. Within seconds, Google shows him a list of results.

Describe step by step **what happens behind the scenes** in this process, covering:

- A. **Client-Side Actions** – What does Ravi’s browser do when he presses Enter?
- B. **DNS Resolution** – How is Google’s server address identified?
- C. **Request Handling** – How does the request travel across the internet and reach Google’s servers?
- D. **Server-Side Processing** – What happens inside Google’s server when it receives the query?
- E. **Response Transmission** – How does the processed data travel back to Ravi’s device?

- F. **Client-Side Rendering** – How does the browser finally display the search results to Ravi?
6. You are creating a **shopping website**. The client wants the following sections on the product page for a **mobile phone**:
- A list of **features** of the phone (camera, battery, screen size, etc.) – the order doesn't matter.
 - A list of **steps to place an order online** – the sequence must be followed.
 - A list of **technical terms with explanations** (e.g., *RAM* – Random Access Memory, *OLED* – Organic Light-Emitting Diode).
- To achieve this, which concept can be used? Explain each concept in detail with a simple example and syntax.
7. You are building a **student portal** for a college. The admin wants to display the **marks of students** in different subjects in a structured way. For example, each row should show:
- Student Name
 - Roll Number
 - Subject Marks (Math, Science, English)
 - Total Marks
- As a web developer, how will you achieve this to represent this data? Explain the tags used for the same along with all the attributes and give a syntax for each.
8. Imagine you are creating an **online event registration page** for a university tech fest. The form should allow participants to enter their personal details (name, email, phone), choose their department, select the events they want to participate in, write a short note about themselves, and finally submit the form. Explain how you would design this form in HTML, mentioning all the **necessary elements used in forms** and their purpose. Give syntax for each
9. A company wants to create an **internal documentation site** where the **navigation menu** stays fixed on the left side, and the **content area** on the right updates whenever a menu item is clicked. The client specifically asks that the page should not reload completely each time—only the content area should change. In this situation, explain why **frames** (or iframes) would be useful and how they fulfill this requirement. Explain with a syntax.
10. Differentiate between the following
- a. Html vs Xhtml
 - b. Span vs Div tag
 - c. Frame vs iframe tag
 - d. Text vs Textarea
 - e. Submit vs reset Button
 - f. Internal vs External link
 - g. Inline vs Block Elements
11. Define `<iframe>` tag. Write an html code using `<iframe>` tag.

Write an **HTML program** using <frameset> and <frame> tags to divide the browser window into the following layout:



Each frame should display a separate HTML file containing the text: “Contents of Frame X” (where X = 1, 2, 3, 4).

12. Write an html code for designing a table as shown

Product		
No	P. Name	P. Count
1	Pen	
2	Book	
3	Dust	50

13. Explain the structure and components of forms in HTML. Discuss different form elements with examples and describe how they are used to capture user input.
14. Explain image mapping in HTML. Discuss its purpose, how to create image maps using <map> and <area> elements, and provide examples illustrating different types of image maps
15. Explain how to create tables in HTML. Discuss the tags and attributes involved and demonstrate with an example.
16. Explain the different types of lists in HTML with detailed examples. Discuss how each type of list is used and formatted.
17. Differentiate between the GET and POST methods in HTTP. Demonstrate their usage with suitable HTML form examples. Discuss scenarios where each method is preferred
18. Apply your understanding to differentiate between the following concepts and demonstrate with suitable examples
- Html vs Xhtml
 - Span vs Div tag
 - Text vs Textarea
 - Submit vs reset Button
 - Inline vs Block Elements