

Satyug Darshan Institute of Technology, Faridabad		
	Programme: BCA	Semester: 2nd
	Subject Name : Web Technology	Subject Code: BCG-110-V1
	Department: BCA	AY: 2025-2026
Prepared By: Ms. Shivani Bansal		
Unit -1		
Short Questions		
S. No.	Question	Bloom Taxonomy (KL)
1	Define HTML and state its primary objective in web development.	K1
2	List the basic structural tags required for any HTML document.	K1
3	What is the purpose of the <FIELDSET> tag in form creation?	K1
4	Explain the difference between an IMG tag and an IFRAME tag.	K2
5	Define the role of the DIV tag in modern web layout design.	K1
6	What are the three different types of CSS used in web pages?	K1
7	Define "Responsiveness" in the context of a web page.	K2
8	What is Bootstrap, and how is it linked to an HTML project?	K1
9	Explain the Bootstrap Grid System in brief.	K2
10	Define WWW and list two common protocols used on the internet.	K1
11	What is the function of a Domain Name System (DNS)?	K1
12	Name three types of web hosting services available to developers.	K1
13	Differentiate between Shared Web Hosting and Cloud Web Hosting.	K2
14	What is the purpose of the ANCHOR tag in HTML lists?	K1
15	Identify the tag used to create a multi-line text input in an HTML form.	K1
16	Why are Header Tags (H1-H6) important for web page structure?	K2
Long Questions		
1	Define HTML and explain its basic structure, including the purpose of Header and Body tags.	K1
2	Describe the different types of Lists available in HTML with appropriate code examples.	K2
3	Explain the process of creating a complex Form using tags like TEXTAREA, SELECT, and FIELDSET.	K2
4	Demonstrate how to implement Responsiveness in a web page using CSS Media Queries.	K3
5	Apply Bootstrap's Grid System to create a three-column layout that collapses on mobile devices.	K3
6	Analyze the differences between various types of Web Hosting (Shared, VPS, Dedicated, and Cloud).	K4
7	Compare and contrast the different types of CSS Selectors and their specificity rules.	K4
8	Evaluate the advantages of using a CSS framework like Bootstrap over custom vanilla CSS.	K5

9	Critically assess the importance of DNS and Protocols (HTTP/HTTPS) in web communication.	K5
10	Design a complete NAVBAR for a professional website using HTML, CSS, and Bootstrap classes.	K6
11	Create a landing page layout that integrates IMG, IFRAME, and TABLE tags with a DIV-based structure.	K6

Unit -2

Short Questions

S. No.	Question	Bloom Taxonomy (KL)
1	Define JavaScript and its role as a client-side scripting language.	K1
2	What is a "Function" in JavaScript?	K1
3	Define an "Event" and provide two examples commonly used in web pages.	K1
4	What does DOM stand for, and what is DOM traversing?	K1
5	List four methods used in the JavaScript Output System (e.g., Alert, Console).	K1
6	How do you declare a variable in JavaScript?	K1
7	Define an Array and explain its utility in storing data.	K2
8	What is the difference between an Alert box and an Input box?	K2
9	Explain "String handling" with one example of a string method.	K2
10	How is the "Date" object used to display the current time in JavaScript?	K2
11	What is "Throughput" in the context of JavaScript output systems?	K1
12	Name two arithmetic operators used in JavaScript.	K1
13	What is the purpose of the Console object in JavaScript debugging?	K1
14	Differentiate between a global variable and a local variable in JavaScript.	K2
15	How do you access a specific element in an array using its index?	K1
16	Describe the relationship between HTML tags and the Document Object Model.	K2

Long Questions

S. No.	Question	Bloom's Taxonomy
1	What is the Document Object Model (DOM)? List the methods used for DOM traversing.	K1
2	Explain the different ways to generate output in JavaScript, such as Alert, Console, and InnerHTML.	K2
3	Describe how String handling and Date functions are implemented in JavaScript.	K2
4	Demonstrate the use of Arrays in JavaScript to store and manipulate a list of student names.	K3
5	Apply JavaScript Events to trigger a specific function when a user clicks a button or hovers over text.	K3
6	Analyze the scope of variables (Global vs Local) and the differences between var, let, and const.	K4
7	Differentiate between Named functions and Anonymous functions with relevant code snippets.	K4
8	Justify the use of JavaScript for client-side processing versus server-side processing.	K5
9	Evaluate the efficiency of different loop structures (for, while, forEach) for traversing large arrays.	K5
10	Formulate a JavaScript script that dynamically changes the background color of a page based on user input.	K6

11	Create a functional calculator using JavaScript that performs basic arithmetic operations using functions.	K6
----	--	----

Unit -3

Short Questions

S. No.	Question	Bloom Taxonomy (KL)
1	Define "Form Validation" and why it is necessary.	K1
2	What is a "Required validator" in form processing?	K1
3	Explain the purpose of a "Length validator".	K2
4	Define a "Pattern validator" and how it uses Regular Expressions.	K1
5	How can JavaScript be used to change the CSS property of an HTML element?	K2
6	What is the significance of combining HTML, CSS, and JavaScript events?	K2
7	Define AJAX and state its full form.	K1
8	What is the primary purpose of using AJAX in web applications?	K1
9	List two advantages of using AJAX-based web applications.	K1
10	Mention one major disadvantage of AJAX.	K1
11	What are the "alternatives to AJAX" currently used in web development?	K1
12	Explain how JavaScript can "control your browser" (e.g., window methods).	K2
13	How does AJAX enable asynchronous data updates without reloading the page?	K2
14	What is "Advanced JavaScript" in the context of DOM manipulation?	K1
15	Identify a JavaScript event that can trigger a CSS style change on a button.	K1
16	Describe how to validate an email address format using a pattern validator.	K2

Long Questions

S. No.	Question	Bloom's Taxonomy
1	Define AJAX. What are the primary purposes of using AJAX in modern web applications?	K1
2	Explain the process of Form Validation using Required and Pattern validators in JavaScript.	K2
3	Describe the advantages and disadvantages of using AJAX based web applications.	K2
4	Apply JavaScript to dynamically change CSS properties (like visibility, color, and font-size) of an element.	K3
5	Demonstrate how to combine HTML, CSS, and JavaScript events to create an interactive image gallery.	K3
6	Analyze the role of the XMLHttpRequest object or Fetch API in performing asynchronous requests.	K4
7	Compare AJAX with traditional page-refresh methods in terms of user experience and performance.	K4
8	Evaluate the security challenges associated with AJAX and how to mitigate them.	K5
9	Assess the alternatives to AJAX (such as WebSockets) for real-time data updates.	K5
10	Propose a design for a real-time Search Suggestion box using AJAX and JavaScript.	K6
11	Design a comprehensive user registration form with multi-level validation (length, pattern, and required).	K6

