

FOUNDATIONS OF WEB DEVELOPMENT

IMPORTANT QUESTIONS

MODULE III

Q.No	Question	Bloom's Taxonomy Level	CO
1	Explain loop implementations in JavaScript with examples of for, while, and do...while loops. How does each loop handle initialization and condition checking?	Understand	1
2	Write a JavaScript program to demonstrate function declaration and parameter passing (both by value and by reference) with suitable examples and output.	Apply	2
3	Describe the Document Object Model (DOM) and explain its hierarchical structure using a labeled diagram. How are elements, attributes, and text nodes organized in this hierarchy?	Analyze	3
4	Demonstrate JavaScript element selection methods (getElementById, getElementsByClassName, querySelector), and show how to manipulate node properties, text content, attributes, and styles dynamically using DOM. Include a complete example program.	Evaluate	4

MODULE IV

Q.No	Question	Bloom's Taxonomy Level	CO
1	Explain the structure of an HTML form and describe different input element types with examples.	Understand	1
2	Differentiate between form control components such as <textarea> and <select>. Write a JavaScript example to dynamically update a <select> list.	Apply	1

3	What is form validation in JavaScript? Demonstrate client-side validation using conditional statements and event handling.	Apply	2
4	Describe the JavaScript Event Model . How are event listeners registered using addEventListener()? Give an example with multiple event types.	Understand	2
5	Explain event propagation with the concepts of capturing and bubbling phases. Use an example to illustrate how events flow through the DOM tree.	Analyze	3
6	What is the Event Object in JavaScript? List its important properties and methods with examples.	Understand	3
7	Discuss Asynchronous JavaScript and explain the use of callbacks and scheduler communication (like setTimeout and setInterval) in non-blocking execution.	Analyze	4
8	Write a program to demonstrate how to use the Fetch API to make an HTTP GET request, parse the JSON data , and display it dynamically on a webpage. Explain serialization and deserialization in this context.	Evaluate	4

MODULE V

Q.No	Question	Bloom's Taxonomy Level	CO
1	Explain the Bootstrap Grid System . How are containers , rows , and columns structured to achieve responsive layouts? Provide a simple example.	Understand	1
2	Describe the use of Bootstrap Container Utilities and explain the difference between .container, .container-fluid, and .container-{breakpoint}.	Understand	1
3	Demonstrate the implementation of rows and columns in Bootstrap. Write code to create a three-column layout with responsive breakpoints.	Apply	2

4	Explain Display Properties , Flex Sizing Utilities , and Spacing Utilities in Bootstrap with examples of d-flex, flex-grow, m-3, and p-2 classes.	Apply	2
5	Discuss the Bootstrap Color System and its importance in UI design. How can background and text colors be customized using predefined utility classes?	Analyze	3
6	What are Bootstrap UI Components ? Demonstrate the creation of a Navbar and Buttons using Bootstrap classes.	Apply	3
7	Explain Dynamic Elements such as the Carousel component in Bootstrap. Write an example to create an automatic image slider with indicators and controls.	Evaluate	4
8	Describe Flexbox alignment properties such as align-items, align-self, and justify-content. How do they support responsive design principles in Bootstrap layouts?	Analyze	4