

## Unit - 1

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### HTML

1. Describe any three HTML tags from following with simple example?  
i) head ii) body iii) form iv) table v) marquee
2. What is the difference between span and div tag in HTML5?
3. What are two types of Web Storage in HTML?

### CSS

4. What is a style sheet? How to create a multi colour text on a web page using CSS?
5. What is the importance of CSS selectors? Where do you use them?
6. What are different types of CSS? Explain each with examples.

### BOOTSTRAP

7. Write Short note on Bootstrap? Write a program to demonstrate button styles (warning, danger, Default, Primary, link, success)?
8. Discuss why BOOTSTRAP is preferred for website development.
9. What are the key components of BOOTSTRAP?
10. How do you make images responsive?

### W3C

11. What is W3C? How W3C handles/Supports Web Technologies?

### Extra

12. How would you make your web pages load fast?
13. What is the advantage of collapsing white space?
14. What is the use of alternative text in image mapping?

## Unit - 2

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### JavaScript

15. Explain with an example how to access values of textboxes of form using JavaScript?
16. What are the different data types available in Javascript? Explain the syntax of it.
17. Explain how to call JavaScript from an HTML page? Write a program to validate atleast one textfield for empty value?
18. Design a form to accept workshop registration details from participants and validate any five fields using JavaScript? (Assume suitable structure)
19. Write an HTML Page and provide JavaScript for accepting userID and password from the user to ensure the input is not empty.
20. List and brief any five functions in JavaScript.
21. Write Javascript code to convert kilometers to miles.

### Advance JavaScript

22. What is JSON file format and explain the usage of JSON
23. Which is better XML or JSON? Why?
24. Explain how to transform JSON text to a JavaScript object? Explain JSON Parser.
25. Explain data types supported by JSON? What is the role of JSON.stringify?

### AJAX

26. What is the purpose of AJAX? Explain with relevant example?
27. What is use of XMLHttpRequest Object? Explain its use with the help of simple JavaScript Code.
28. Explain different applications without AJAX and with AJAX.

## JQuery

29. Write a program of your choice to demonstrate the use of DOM
30. Explain the following document object properties with proper syntax. Give one example.
  - i) document.getElementById()
31. ii) document.getElementsByClassName()
32. iii) document.getElementsByName()
33. When to use JQuery? What are the advantages of JQuery over JavaScript?
34. What is the difference between JavaScript and JQuery?
35. What is the purpose of DOM node tree? Draw a DOM node tree for a simple HTML page
36. What is the difference between ID and Class selector in JQuery?
37. What is the following jQuery instruction used for
  - a) `$(document).ready(function(){ ..... });`
  - b) `$("#Element")`
38. What would happen if you would click the button from the code below?

```
<h1> Unit Test-1</h1>
<button id="wad">WAD</button>
<script>
    let button=document.getElementById("wad");
    $(button).click(function(){
    $("h1").css("color","red");
    $(this).hide();
    console.log($("#h1").text());
    }
</script>
```

## Unit - 3

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### Front-End Frameworks

38. What is web framework? Why web framework is important? What are web framework types?

### MVC

39. Draw and discuss MVC architecture in details.
40. Explain the MVC Application life cycle.

### TypeScript

41. Write short note on TypeScript
42. What is advantage of TypeScript over JavaScript?
43. Explain the difference between Type inference and Type Annotations with examples.
44. Explain Variable and Constant declaration in TypeScript.
45. Explain with example how to export and import class in Typescript.

### AngularVersion 10+

46. What is Angular? List and explain various directives and components in Angular?
47. Create Simple Angular application to display "Hello, Input Name" using proper directive.
48. What is the difference between AngularJS and Angular? Draw a pictorial diagram of Angular architecture?
49. Explain different files that consist in angular component.
50. Explain Angular Module in detail..
51. Explain in brief about -i) Data Binding in Angular ii) Angular CLI iii)Dependency injection in Angular iv)Pipes in Angular v) Angular Router

### ReactJS

52. What is Node Package Manager or NPM?