Unit I
Assignment No. 1

1. Which of the following is a correct HTML5 element for embedding a video?

→ <video>,

2. Which attribute is used in HTML to provide additional information about an element?

→ title.

3. In HTML, which tag is used to create a number list?

→

4. Which CSS property is used to change the text color of an element?

→ Color

5. What is the default position value of an HTML element in CSS?

→ Static.

6. Which of the following CSS properties is used to control the spacing between element's borders and content?

→ padding.

7. Which CSS selector targets an element with a specific class?

→ classname.

8) What does the alt attribute in an <img> tag do?

→ provides alternate text

9. which of the following is NOT a valid HTML 5 element?

→ \<font 7

10. what does the box-sizing: border-box, do in CSS?

→ Includes padding and border in element's total and height.

Note: the rotated text on the left side.

Add please option detail to each Query

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1. Difference Between Block and Inline Elements

→ Block elements start on a new line and take the full width available (e.g., <div>, <h1>, <p>).

Inline elements do not start on a new line and only take as much width as necessary (e.g., , <a>, <strong>).

Example:

Html

<div> This is a block element </div>
 This is inline

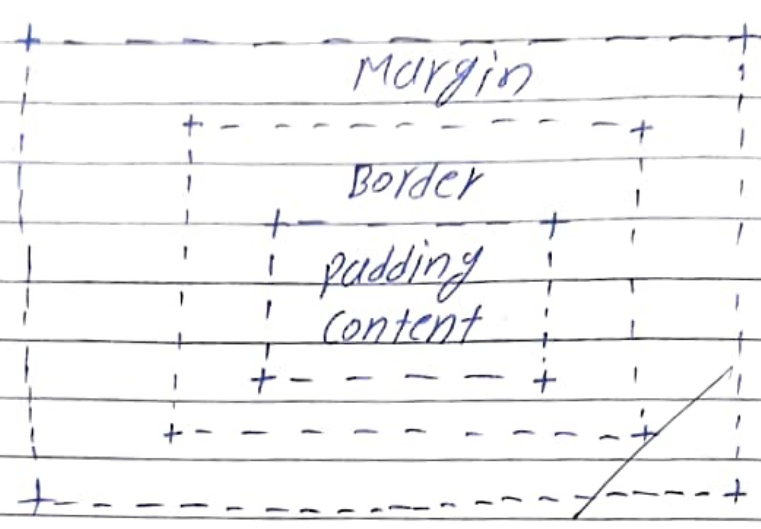2. CSS Box Model.

→ The CSS Box Model Consists of :-

i] Content: The actual content (Text, image, etc.)

ii] Padding: Space around the content

iii] Border: surrounds the padding

iv] Margin: space outside the border

Diagram :

```
+ - - - - - - - - - - - - - - - - - - +
|              Margin                 |
|   + - - - - - - - - - - - +         |
|   |        Border         |         |
|   |   + - - - - - - +     |         |
|   |   | padding     |     |         |
|   |   | content     |     |         |
|   |   + - - - - +   |     |         |
|   + - - - - - - - - +     |         |
+ - - - - - - - - - - - - - - - - - - +
```

3. CSS selectors

Selectors are used to apply styles to HTML elements.

i) Element selector : h1 { color : red; }

ii) class selector : # main { background : blue; }

iii) universal selector : * { margin : 0; }

iv) group selector : h1, h2 { color : green }

4. Responsive Design and Media queries

→ Responsive web design ensures the layout adjusts on different screen sizes.

Media Query Example :-

```css
@ media (max-width: 768 Px) {
    body {
        background-color: lightgray;
    }
}
```

This code changes the background color when the screen width is less than 768 PX.

5. HTML Form and CSS Styling.

A form collects user inputs. Example elements include <input>, <select>, <textarea>, and <button>.

EX Form :-

```html
<form>
    <input type="text"
    placeholder="Name"/>
```

```
<option> BCA </option>
<option> MCA </option>
</select>
<button> Submit </button>
</form>
```

Styling Example:

CSS

```
form input {
    Padding : 10 Px ;
    border-radius : 5 Px ;
}
form button : hover {
    background-color : green ;
}
```

practicle question.

1. college Registration form webpage.

HTML.

```
<!DOCTYPE html>
<html lang=" en">
<head>
  <meta charset= "UTF-8">
  <title> college Registation </title>
  <style>
    body {
        font- family: Arial,
    Sans - serif;
        background:
linear- gradient (to right, # 74ebd5,
 # acb6e5);
        padding: 20px;
    }
    . fom - container {
      background: #fff;
      padding : 20 Px;
      border-radius: 15Px;
      max-width: 400 Px;
      margin: auto;
      box-shadow: 0  0  10Px
    rgba (0,0,0, 0.2);
    }
```

```css
input, select {
    width: 100%;
    padding: 10 Px;
    margin: 10 Px 0;
    border-radius: 8 Px;
    border: 1Px solid # ccc;
}

button {
    padding: 10 Px;
    width: 100 %;
    background-color: # 3498 db;
    color: white;
    border: none;
    border-radius: 8 Px;
    font-size: 16 Px;
    cursor: Pointer;
}

button: hover {
    background-color: # 2980 b9;
}

@media (max-width: 500 Px) {
    .form-container {
        padding: 10 Px;
    }

    button {
        font-size: 14 Px;
    }
}
</style>
</head>
<body>
```

```html
<div class="form-container">
    <h2>College Registration Form</h2>

    <form>
        <input type="text"
placeholder="Full name" required>
        <input type="radio"
name="gender">Male
        <input type="radio"
name"gender">Female<br>
        <label>Course:</label>
        <select>
            <option value="bca">BCA</option>
            <option value="MCA">MCA</option>
        </select>
        <button
type="submit">Register</button>
    </form>
</div>
</body>
</html>
```

Short answer question

1. What is the purpose of the alt attribute in an HTML <img> tag?
   → It provides alternative text for the image if it cannot be displayed.

2. Define the difference between id and class in HTML.
   → id is used for a unique element, while class can be used for multiple elements.

3. What does the float property do in CSS?
   → It positions elements to the left or right, allowing text or inline elements to wrap around.

4. What is the use of <a> tag in HTML?
   → It is used to create hyperlinks to other pages, files or sections.

5. Mention any two features of HTML 5.
   → <video>, <audio>, Selection, <article>, form validations and canvas element.

Add example of each question.

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Unit 2

1. MCQ.

a] which of the following is a correct Javascript data type?
→ Boolean.

b] which method adds a new element at the end of an array in Javascript?
→ push()

c] which tag is used to link Javascript to HTML?
→ <script>

d] what is the output of type of "Hellow" in Javascript?
→ String

e] which of these in not a valid comparison operator in Javascript?
→ =!=

f] In Bootstrup s whic class is used for a responsive container?
→ .Container-fluid

g] How can you create a class in Javascript?
→ class className {}

14] which Bootstrap class adds padding in a
   card?
   → .p-3

15] which javascript method converts a
   string to a number?
   → parseint ()

Add options
to all questions

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3.2 Short Question.

1. what is the DOM in Javascript?
→ DOM (document object model) represents the structure of a webpage and allows Javascript to manipulate HTML and CSS.

2. what is the different beetween == and === in Javascript?
→ == compares values after type conversi... wheres === compairs both value and data type strictly

3. Name any two types of Bootstrap containers.
→ . Containers and . container-fluid

4. what are Javascript events?
→ Events are actions like clicks, hovers, form submissions, etc, that Javascript can respond to.

5. what is the use of Math.random() in Javascript?
→ It returns a random number between 0 and 1.

9.3 Long Questions.

1. Explain the different scopes in javascript has three types of scopes.

→ i] Gloable scope: Accessible from anywhere in the code.

ii] Functional scope: variables defined inside a function are only accessible there.

iii] Block scope: variables declared with let or const inside {} are limited to that block.

ex :-
JS

```
let x = 10;
function test () {
let y = 20;
if (true) {
let z = 30;
}
}
```

2. write the different beetween Javascript
and Bootstrup.

→ Javascript is a scripting languge used
to add logic and interactivity

ii) Bootstrup is a CSS framework
used to design responsive and
attractive UIS.
    Javascript manipulates data
and behaviour; Bootstrup manuges
layouts and visuals.

3. How does Javascript handle errors
and debugging?

→ Javascript uses try...catch
blocks to handle error. Debugging
can to be done using browser
dev tools like chrome Developer
Tools and using console.log r)
statement to trace values.
    Javascript handles errors
and facilitates bed debugging
through a combination of languc
construct and developer tools.
A common use of Javascript
conditions is ho handle errors.

4. Explain the Grid system In Bootstrap5

→ Bootstrap 5 uses a 12-column responsive grid layout. classes like col-6. col-md-4 help divide rows into parts across devices (xs, sm, md, lg, xl.)

Example :-

```
<div class = " row">
   <div class= "col-6"> Left</div>
   <div class = col-6"> Right <
div>
<Idiv>
```

5. Discuss Javascript functions and types. provide ex.

→ Javascript functions are blocks of reusable code Types:

Named function: function add (a, b] { return a + b;3

Anonymus function: Const greet = function () {}

Arrow function: Const sum= (a, b) => a + b;

practicle question

1. create a Bootstrap card that
   shows user details using javascript
   Dom manipulation

→
```html
<!DOCTYPE html>
<html>
<head>
    <title> user card </title>
    <link
href = "https://cdn.jsdelivr.net/npm/
bootstrap.min.css" rel = "stylsheet">
</head>
<body>

<div class = "container mt-5">
   <div class = "card" style=" width:
18rem;" >
      <div class= "card-body">
   </div>
   </div>
</div>

<script>
   let name= " vishal kunale";
   let age = 25;

document.getElemetById ("user card")
.inner HTML =
```

```html
<h5 class "card-title"> $ Enunc}
</h5>
    <p class= "card-text"> Age: $
{age} </P>
  </script>

  </body>
</html>.
```

1 which of the following is a correct HTML 5 element for embedding a video?

i] <Video>
ii] <audio>
iii] <Table>
iv] <List>

→ <Video>

2] which attribute is used in HTML To provide additional information about an element.?

i] header
ii] table
iii] colum
iv] title.

→ title.

3] which tag is used to create a hyperlink in HTML?

i] ~~which~~ <link>
ii] <a>
iii] <href>
iv] <hyper>

→ <a>

4] which of the following is a block-level element
i] <span>   B] <div>   c] <a>
D] <strong>

→ <div>

5] What is the correct HTML element for inserting a line break?

→ a] <break>
B]
c] <lb>
d] <ht>

→ B]

6] which input type is used for slecting multiple options from a list.

→ a] checkbox
b] radio
c] text
D] buttor

→ A] checkbox

7] which css property is used to change the text color of an element?

→ A] font-color
B] text-color
c] color
D] foreground-color

→ c] color

8] Which of the following values is not valid for the position property in CSS?

A] static

B] fixed

C] absolute

d] center

→ d] center.

9] what does the z-index property in CSS control?

A] Text direction

B] Element transparency

C] Stack order of elements

D Font size.

→ c] stack order of elements.

10] which of the following CSS 3 properties is used to apply a shadow to text

A] text - shadow

B] box - shadow

C] shadow - text

D] font - shadow

→ A] text - shadow.

Unit ~~Test~~ - 2   MCQ.

1] Which of the following is the
correct syntax to declare a variable
in javascript?
→ a] var = x;
b] let x;
c] dim x;
D] define x;

→ B] let x;

2] which Javascript keyword is used to
define a constant?
a] const
b] define
c] final
d] static

→ A] const

3] what will be the result of type of
null in javascript?
a] null
b] object
c] undefined
D] boolean

→ B] object.

4] which method is used to add an element to the end of an array?
a] add ()
b] append ()
c] Push ()
D] insert ()

→ c] Push ()

5] which operator is used to compute both value and type in Javascript?
A] = =
B] ! =
C] = = =
D] < >

→ C] = = =

6] How do you create a function in Javascript?
a] function = myFunc ()
b] def myFunc ()
c] function myFunc ()
d] create function myFunc ()

→ c] function my Func ()

7] Which built-in method combines the text of two strings?

A] merge ()
B] concat ()
C] attach ()
D] Join ()

→ B] contact ()

8] Which object in Javascript handles mathematical calculations?

A] calc
B] Number
C] attach
D] match

→ C] math.

9] Which statement is used to handle exceptions in Javascript?

A] try- catch
B] if - else
C] do - catch
D] error- catch

→ A] try - catch.

10] What is the default Bootstrap class for a responsive container?

A]. container - fixed
B]. container - fluid
C]. container
D]. box - container

→ C. container

Answer

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