**Module (CSS and CSS 3) -2**

**1. What are the benefits of using CSS?**

**Ans:-**

* Separation of Content and Presentation: Allows for HTML to handle content while CSS manages how content is presented.
* Flexibility and Maintainability: Easy to maintain and update styles across multiple pages by editing a single CSS file.
* Improved Performance: CSS can be cached by browsers, improving load times for subsequent pages.
* Consistency: Ensures a consistent look and feel across multiple web pages.
* Accessibility: Makes it easier to create websites that are accessible to people with disabilities.
* Responsiveness: Facilitates the creation of responsive web designs that work on various devices and screen sizes.

**2. What are the disadvantages of CSS?**

**Ans:-**

* Browser Compatibility: Not all CSS features are supported uniformly across all browsers.
* Complexity: Large and complex stylesheets can become difficult to manage.
* Security: Inline styles and certain CSS features can be exploited for malicious purposes if not properly managed.

**3. What is the difference between CSS2 and CSS3?**

**Ans:-**

* Modules: CSS3 is divided into modules, allowing for faster adoption of individual features.
* New Features: CSS3 introduces new features like flexbox, grid layout, transitions, animations, and more.
* Selectors: CSS3 provides more advanced selectors than CSS2.
* Media Queries: CSS3 includes media queries for responsive design, which were not present in CSS2.

**4. Name a few CSS style components**

**Ans:-**

* Selectors
* Values
* Margin
* Padding
* Inline

**5. What do you understand by CSS opacity?**

**Ans:-** The CSS opacity property is used to specify the transparency of an element. In simple word, you can say that it specifies the clarity of the image. In technical terms, Opacity is defined as degree in which light is allowed to travel through an object.

**6. How can the background colour of an element be changed?**

**Ans:-** To add background color in HTML, use the CSS background-color property. Set it to the color name or code you want a style attribute. Then add this style attribute to an HTML element, like a table, heading, div, or span tag.

**7.** **How can image repetition of the backup be controlled?**

**Ans:-** The background-repeat property in CSS is used to repeat the background image both horizontally and vertically. It also decides whether the background image will be repeated or not.

**8. What is the use of the background-position property?**

**Ans:-** The background-position property sets the starting position of a background image. By default, a background-image is the top-left corner of an element, and repeated both vertically and horizontally.

**9. Which property controls the image scroll in the background?**

**Ans:-** The background property sets whether a background image scrolls with the rest of the page or is fixed.

**10. Why should background and colour be used as separate properties?**

**Ans:-** There are two reason The background property is a complex property in CSS, and if it is combined with colour, the complexity will further increase.

**11.** **How to center block elements using CSS1?**

**Ans:-** To centrally align the block elements, we can use of the <center> tag. All the elements within the <center> tag will be centrally aligned.

**12. How to maintain the CSS specifications?**

**Ans:-** The CSS specifications are maintained by the World Wide Web Consortium (W3C).

**13. What are the ways to integrate CSS as a web page?**

**Ans:-**

* Inline Styles: Using the style attribute directly in HTML elements.
* Internal Style Sheets: Using the <style> tag within the <head> section of an HTML document.
* External Style Sheets: Linking to an external .css file using the <link> tag.

**14. What is embedded style sheets?**

**Ans:-** Styles defined within the <style> tag in the <head> section of an HTML document.

**15. What are the external style sheets?**

**Ans:-** Styles defined in a separate .css file linked to an HTML document using the <link> tag.

**16. What are the advantages and disadvantages of using external style sheets?**

**Ans:-** Advantages of External CSS

* Improved maintainability and code organization.
* Enhanced reusability across multiple HTML files.
* Efficient caching and faster page load times.
* Disadvantages of External CSS
* Pages may not render correctly until the external CSS is loaded.
* Uploading or linking to multiple CSS files may increase your site’s download time, affecting its overall performance.
* Large-scale projects may face versioning and caching challenges when using external CSS.

**17. What is the meaning of the CSS selector?**

**Ans:-** A CSS selector is a pattern of elements and other terms that tell the browser which HTML elements should be selected to have the CSS property values inside the rule applied to them.

**18. What are the media types allowed by CSS?**

**Ans:-** mainly 3 type of media query in CSS.

* All
* Print
* Screen

**19. What is the rule set?**

**Ans:-** A selector list and an associated declaration block,together,are called a rule set.

**20. Create Layouts**

**Ans:-** Layouts in CSS can be created using various techniques such as:

* **Flexbox:** For flexible box layouts.
* **Grid:** For two-dimensional grid layouts.
* **Float:** Older method using floating elements.
* **Positioning:** Using absolute, relative, fixed, and sticky.