

1.How do you ensure accessibility compliance when integrating JavaScript libraries into web applications?

- A) By ignoring accessibility guidelines
- B) By following web accessibility standards, using ARIA roles, and testing with screen readers and other assistive technologies
- C) By using only plain HTML
- D) By minimizing the use of JavaScript

2.What role do CDN (Content Delivery Networks) play in the distribution and usage of JavaScript libraries in web applications?

- A) They store HTML files
- B) They host and distribute JavaScript libraries to ensure fast and reliable delivery
- C) They manage databases
- D) They provide server-side scripting

3.How do you manage dependencies between JavaScript libraries and ensure they are loaded in the correct order?

- A) By loading them randomly
- B) By using dependency management tools like npm and tools like webpack, and specifying the order in HTML
- C) By avoiding dependencies
- D) By using global variables

4.How does lazy loading enhance performance when using JavaScript libraries in web applications?

- A) By loading all resources at once
- B) By using less memory
- C) By preloading all resources

D) By delaying the loading of non-essential resources until they are needed

5.How does the Fetch API compare to Axios for making HTTP requests in JavaScript?

A) Fetch API is a promise-based native JavaScript API; Axios is a third-party library with more features

B) Fetch API is used for CSS; Axios is used for HTML

C) Fetch API is synchronous; Axios is asynchronous

D) Fetch API is a database management tool; Axios is a frontend framework

6.What are the main features of GraphQL and how does it differ from RESTful APIs?

A) GraphQL is a frontend framework; RESTful APIs are not

B) GraphQL allows clients to request specific data; RESTful APIs provide fixed endpoints

C) GraphQL uses SQL queries; RESTful APIs do not

D) GraphQL is used for styling; RESTful APIs are for scripting

7.How does Sass/SCSS improve CSS development?

A) By providing a graphical interface for CSS

B) By creating animations.

C) By allowing variables, nesting, and other features to make CSS more maintainable and extendable

D) By managing databases

8.How does React differ from traditional JavaScript libraries like jQuery?

9.React Is a library for building user interfaces with a component-based architecture, focusing on state management and virtual DOM

B) React is a CSS framework

C) React is used for server-side scripting

D) React does not support JavaScript.

10. How do you run a Node.js script from the command line?

A) npm run script.js

B) node script.js

C) run script.js

D) execute script.js

11. What is the function of the HTML style attribute?

a) It is used to add style to an HTML element

c) both a & b

b) It is used to uniquely identify some specific styles of some element c) Both a & b

d) None of the above

12. What tag is used to render an image on a webpage?

a) img b) src c) image d) none of them

13. What is the purpose of package.json in a Node.js project?

A) To list all the JavaScript files in a project

B) To configure the web server

C) To store environment variables

D) To manage project dependencies and metadata

13. Which of the following components of the CSS box model are transparent?

- a) padding
- b) margin
- c) both a & b
- d) content

14. How do you run a Node.js script from the command line?

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15. How many characters can be written in IKB?

- a) 1048 b) 1024 d) content b) Binary Text c) Text d) None of the above c) 2048

16. There are the two main types of layouts available in Bootstrap. Write their names and function.

The two main types of layouts available in Bootstrap are:

1. Fixed Layout

2. Fluid Layout (or Responsive Layout)

Fluid Layout-This layout is necessary for creating an app that is 100% wider and covers all the screen width.

Fixed Layout. It is used only for a standard screen (940px). Both layouts can be used for creating a responsive design.

17. Write down the Boilerplate of HTML.

```
<!DOCTYPE html>

<html> <head>

<meta charset="UTF-8">

<title>Document Title</title>

</head>

    <body>

    </body>

</html>
```

18. Why do we use the CSS box-sizing property?
19. Write the key difference between margin and padding in CSS.
20. Explain JSON and Provide an example.
21. Describe your process for creating and editing vector graphics in your design software?
22. Describe the process of establishing a connection to a server using FTP software?
23. What role do browser prefixes play in CSS development?
24. What is an interactive website?
25. Explain the role of server-side scripting languages in dynamic website development?
26. What are the main advantages of using a dynamic website?
27. How do you ensure accessibility compliance for users with disabilities on a static website?
28. What is a static website?
29. How do online marketplaces and e-commerce platforms leverage the Internet to facilitate transactions between buyers and sellers?
30. How do firewalls play a role in securing intranet networks?