Front-end Interview Questions

1. Difference Between Framework and Library?
   Framework is a collection of various libraries.It is known to be a skeleton where the application defines the content of the operation by filling out the skeleton. Examples of frameworks: Web application system, Plug-in manager, GUI system. The framework only defines the concept but an application further defines the functionality that is useful for end-users.
   Library: It is a collection of helper modules , classes , objects , functions , pre-written code , etc.It performs a set of specific and well-defined operations. Examples : Network protocols, compression, image manipulation, string utilities, regular expression evaluation, math etc.

2. Features of ReactJS?
3. Tell me the name of React Hooks.
4. How can we avoid Re-rendering in React?
5. What is Props?
6. How can we update the state from the Sub-Child to Parent component?
7. What is Context API?
8. Which year hooks have been introduced by react?
9. Which one is the best Redux or Context API, Why? Explain!
10. Tell me About React Lifecycle Method!
11. How can we print the console after completion of everything!
    (useEffect Cleanup function)
12. Why do we need to bind methods? And also where we bind inside React Code?
13. What is useEffect Hook ? Brief Tell me about dependency?
14. What is a pure component ?
15. What is Unidirectional data flow?
16. What is the difference between state and props ?

17. Working flow of Redux?

18. Tell me Redux hooks working principle?
19. What are mapStateToProps, mapDispatchToProps?
20. Difference between class and functional based components ?
21. API Call process in Redux?
22. Can we call an API without using middleware?

23. What is the difference between == and === operators ?
24. What is the difference between var, let and const ?
25. What is ES6?
26. Difference between undefined and null?
27. What are promises, async and await?
28. What is the name of events in javascript?
29. What is Virtual and shadow DOM.
30. What is closure in javascript?
31. What is Hoisting in javascript?
32. Difference Between map, filter, reducer method?
33. What is the use case of call, apply, bind?

34. Difference between float and position in css?
35. Tell me the property of display?
36. What is Git and GitHub?
37. Most used command name?
38. How do we change branch?
39. What is config in github?
40. What is staged in git?

41. Have you worked on ANTD components. What is the use case?
42. What is PWA? What is the main use case of it?
43. Do you know how to make a fully responsive web app?

Type 2

1. How is ReactJS different from JS ?

2. Why is ReactJS so popular ?

3. Difference between class and functional based components ?

4. What is useState Hook ?

5. What is useEffect Hook ?

6. Which is better: class or functional components ?

7. What are class based components and lifecycle methods ?

8. What are pure components ?

9. What are higher order components (HOC)?

10. What is useContext Hook ?

11. What is redux and data flow ?

12. How does data flow work in React ? Is it one or two way data binding?

13. What is the difference between state and props ?

14. What is the benefit of using redux state management library with ReactJS ?

15. What are the components of Redux ?

16. What are the Pure Functions ?

17. How useContext Hook different from Redux Library ?

Type 3

New Features in HTML5

What happens if we not specify DOCTYPE?

what will be the error if we use unknown tags

how do you validate weather the code is working or not ?

explain local storage and seccion storage?

How do you implement auto suggestions?

What is the use of ENCtype ?

how can we get coords of an object ?

How many ways we can hide an element in CSS?

What are the best practices while creating a layout?

how can we put an element in center of web page horizontally and vertically?

explain position absolute and position fixed ?

media queries

pupose of box sizing?

difference between let and const?

what is Hoisting ?

what is closures ?

how do you abstract data in javascript ?

explain inheritence ?

new features in ES6?

Differences between the functional and class components?

how can we stop a component from re-rendering ?

Type - 4

****** HTML *******

1) What is the use of Semeantic tags?

2) Explain the best practices while creating web page?

3) What if Doctype not defined?

4) Rules while creating a webpage?

5) How to bypass HTML5 validations?

6) What are the attributes there to do validations in HTML5?

7) Name few features of HTML5?

8) What is the diffrence b/w Local and Session Storage?

**** CSS *****

1) What is css Specificity?

2) Explain about vendor specific CSS?

3) Diff b/w float,flex and grid?

4) Explain BOX model?

5) What is box-sizing?

6) How to make an element exactly center?

7) How to achive Responsive Web Design?

8) Example for Keyframes?

9) Diff b/w "display:none" and "visibility:hidden" ?

10) What is z-index?

**** Javascript ****

1) What is JS?

2) Diff b/w compiler and interpreter?

3) Diff types of Data types?

4) Explain ne about this code

```
const a = 10;
const b ="10";

if(a==b){
        console.log('Both are equal');
}else{
        console.log("Both are not Equal");
}

(a==b)?console.log('Both are equal'):console.log("Both are not Equal");
```

5) What is Hoisting?

6) can we hoist a variable which was declared using const 'keyword'?

7) Closures?

8) what is IIFA?

9) Event bubling?

10) Async and await?

11) what are the error types in JS?

12) Can you list few features in es6+?

13) Object destruturing?

14) What is Pure functions?

15) what throtling and debouncing in JS?

16) Is javascript Synchronous or Asynchronous?

*** ReactJS ******

1) Diff b/w class and functional components?

2) What are the performance techniquies we should use while creating a component?

3) what is HOC?

4) State Vs Props?

5) what is prop drilling?

6) How to overcome Prop Drilling?

7) How context is differ from Redux?

8) What is Diff b/w redux and Hooks?

9) who is Single source of truth?

10) Can you explain the communication b/w components?