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Web-Development :-

1. How can you convert a JSON string to a JavaScript object?
 - a) `JSON.parse(jsonString);`
 - b) `JSON.stringify(jsonString);`
 - c) `JSON.objectify(jsonString);`
 - d) `JSON.toObj(jsonString);`
2. What is the purpose of the fetch API in JavaScript?
 - a) To handle browser history
 - b) To perform AJAX requests and fetch resources from the network
 - c) To access and manipulate the browser's document
 - d) To create and manage web workers
3. What is the purpose of the try...catch statement in JavaScript?
 - a) To terminate the execution of a program
 - b) To handle errors and exceptions
 - c) To create loops and iterate through arrays
 - d) To define new variables
4. How can you prevent the default behavior of a link in JavaScript?
 - a) `link.preventDefault();`
 - b) `link.prevent();`
 - c) `event.preventDefault();`
 - d) `event.preventLinkDefault();`
5. What is the purpose of the async/await syntax in JavaScript?
 - a) It allows asynchronous functions to be called synchronously.
 - b) It converts synchronous functions to asynchronous functions.
 - c) It provides a way to handle errors in asynchronous code.
 - d) It allows for a more concise way to define arrow functions.
6. What is the significance of the return statement in a React component function?
 - a) It specifies the content to be rendered on the screen.
 - b) It terminates the execution of the component function.
 - c) It defines the initial state of the component.
 - d) It imports other components into the current component.
7. What is the correct way to render a React component inside another component?

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- a) <MyComponent>
- b) {MyComponent}
- c) <MyComponent />
- d) render(MyComponent)

8. What is the purpose of using useState in React hooks?

- a) To create a new React component.
- b) To define the initial state of a component.
- c) To handle user interactions and events.
- d) To manage state within a functional component.

9. What is the purpose of the useEffect hook in React?

- a) To perform side effects in class components.
- b) To handle asynchronous operations in functional components.
- c) To define the lifecycle methods in functional components.
- d) To perform side effects in functional components.

10. What is the purpose of React Router in a React application?

- a) To manage the state of the entire application.
- b) To handle HTTP requests and responses.
- c) To manage the routing and navigation within the application.
- d) To manage the server-side rendering of React components.

11. What does the element represent in HTML?

- a) A division or section in the webpage.
- b) A hyperlink to another webpage.
- c) An inline image on the webpage.
- d) A definition or description of a term

12. In HTML, how can you create a responsive webpage that adjusts its layout based on the device screen size?

- a) By using the element.
- b) By setting the responsive attribute on the element.
- c) By using CSS media queries and a flexible layout design.
- d) By defining different versions of the webpage for different devices.

13. How can you create a dropdown select list in HTML?

- a) <select>
- b) <dropdown>
- c) <list>
- d) <option>

14. What is the purpose of the CSS flexbox layout model?

- a) To create responsive image galleries.
- b) To implement animations and transitions.

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- c) To control the spacing between elements.
- d) To create flexible and responsive page layouts.

15. What is the purpose of the CSS grid layout model?

- a) To create flexible and responsive page layouts.
- b) To control the spacing between elements.
- c) To create rounded corners on an element.
- d) To apply a gradient background to an element.

App Development :-

1. What is the purpose of using the "findViewById" method in Android development?

- a) To find views by their resource IDs in the layout XML file.
- b) To find views by their names in the Java/Kotlin code.
- c) To find views by their layout parameters.
- d) To find views by their parent view IDs.

2. What is the purpose of "Data Binding" in Android development?

- a) To bind UI components to data sources for automatic updates.
- b) To compress and store large data files efficiently.
- c) To allow apps to communicate with remote servers using REST APIs.
- d) To handle user interactions with UI elements.

3. In Android, what is the purpose of a "RecyclerView"?

- a) To display images and videos in a grid layout.
- b) To display large amounts of data in a scrollable list or grid efficiently.
- c) To capture user input from a list of options.
- d) To create animations for complex layouts.

4. In Android, what does the term "ViewModel" refer to?

- a) A class that holds the data required for an activity or fragment.
- b) A component responsible for handling background tasks, such as downloading files.
- c) A layout file that defines the structure of an activity or fragment.
- d) A special type of fragment used for displaying images and videos.

5. What is the role of an "Intent" in Android development?

- a) To manage the application's lifecycle and UI components.
- b) To declare permissions required by the app in the manifest file.
- c) To encapsulate a request to perform an action, either within the app or by other components.
- d) To define the layout and design of an activity in XML.

6. In Kotlin coroutines, what is the role of a "Dispatcher"?

- a) To handle UI interactions and updates from background threads.

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- b) To manage database transactions and queries in a coroutine scope.
- c) To convert asynchronous code into synchronous code.
- d) To schedule coroutines on different threads or thread pools.

7. What is the purpose of the "Jetpack Compose" library in Android development?

- a) To enable data binding and two-way data binding in XML layouts.
- b) To simplify the process of writing UI code by using a declarative approach.
- c) To handle networking and REST API communication in Android apps.
- d) To provide a set of layout templates and styles for consistent UI design.

8. What is "ProGuard" used for in Android app development?

- a) To enable multi-window mode on devices that support it.
- b) To generate signed APKs for distribution through the Google Play Store.
- c) To optimize and obfuscate the code to reduce the APK size and make it harder to reverse engineer.
- d) To ensure the app runs securely in a restricted environment.

9. What is a "StatefulWidget" in Flutter?

- a) A widget that represents a fixed, unchanging part of the user interface.
- b) A widget that manages state and can change its appearance based on that state.
- c) A widget used to display images in different formats and sizes.
- d) A widget that handles navigation between different screens in the app.

10. Which widget in Flutter is used to create a scrollable list of widgets with different heights, where the items are lazily loaded as they come into view?

- a) ListView
- b) GridView
- c) CustomScrollView
- d) SliverList

Problem solving :-

1. What is the output of the following code?

```
function sayHello() {  
  console.log("Hello");  
}  
const sayHi = function () {  
  console.log("Hi");  
}  
const greetings = [sayHello, sayHi];  
for (const greeting of greetings) {  
  greeting();  
}
```

- a) "Hello" "Hi"
- b) "Hi" "Hi"
- c) "Hello" "Hello"
- d) Error: Cannot read property 'apply' of undefined

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2. What will be the value of result?

```
let result = [1, 2, 3].map(num => {  
  if (typeof num === 'number')  
    return;  
  num * 2;  
});
```

- a) [1, 2, 3]
- b) [2, 4, 6]
- c) [undefined, undefined, undefined]
- d) []

3. What is the output of the following code?

```
const arr = [1, 2, 3, 4, 5];  
const result = arr.map(num => num * 2).filter(num => num % 4 === 0);  
console.log(result);
```

- a) [2, 4]
- b) [4, 8]
- c) [1, 4, 6, 8, 10]
- d) [2, 8]