

ReactJS IsDB Exam Suggestions

MCQ:

1. What is ReactJS?

- A. Server-side Framework
- B. User-interface library ☒
- C. Both
- D. None

2. What are the limitations of ReactJS?

- A. React is only for view layer
- B. JSX can seem awkward
- C. The library is too large
- D. All of these ☒

3. How can you access the state of a component from inside of a member function?

- A. this.getState()
- B. this.prototype.stateValue
- C. this.state ☒
- D. this.values

4. Props are _____ into other components

- A. Injected ☒
- B. Methods
- C. Both A and B
- D. All of these

5. Which of the following API is a MUST for every ReactJS component?

- A. getInitialState
- B. render ☒
- C. renderComponent
- D. None

6. At the highest level, React components have lifecycle events that fall into

- A. Initialization
- B. State/Property Updates
- C. Destruction
- D. All of these ☒

7. What are the advantages of React JS?

- A. React can be used on client and as well as server side too
- B. Using React increases readability and makes maintainability easier. Component, Data

patterns improves readability and thus makes it easier for maintaining larger apps

C. React can be used with any other framework (Backbone.js, Angular.js) as it is only a view layer

D. All of the above ☒

8. What does the “webpack” command do?

A. Transpiles JS

B. Runs local server

C. Both A and B ☒

D. None

9. What is a react.js in MVC? [Check for correct answer]

A. Controller ☒

B. Middleware

C. Model

D. Router

10. What will be the output?

A. Hello world 1

B. Hello world 2

C. Hello world 1 Hello world 2

D. Error ☒

11. Number of elements, a valid React component can return

A. 1 ☒

B. 2

C. 3

D. 4

12. State in react is _____

A. A permanent storage

B. Internal storage of the component ☒

C. Both of above

D. None of above

13. props in react can _____

A. Be changed inside the component

B. Not be changed in the component ☒

C. Changed inside other component

D. None of above

14. The state in react can be updated by call to setState method. These calls are

A. Synchronous

B. Asynchronous ☒

- C. Can be synchronous
- D. None

15. As soon as the state of react component is changed, component will

- A. Do nothing
- B. Re-renders the component ☒
- C. Be created again
- D. None

16. componentDidMount lifecycle method is called when _____

- A. Component is created for the first time ☒
- B. Component is updated
- C. Both
- D. None

17. Keys are given to a list of elements in react. These keys should be

- A. Unique in the DOM
- B. Unique among the siblings only ☒
- C. Not required to be unique
- D. None

18. To upload a file from react component, a developer will require to write [Check for correct answer]

- A. Controlled
- B. Uncontrolled
- C. Can be done from both ☒
- D. None

19. Ref in react component is used to assign reference to DOM elements. Ref can be created by

- A. React.createRef
- B. ref attribute
- C. Both ☒
- D. None

20. Babel is a _____

- A. Interpreter
- B. Compiler
- C. Transpiler
- D. Both B & C ☒

21. How do you access a function fetch() from a h1 element in JSX?

- a. `<h1>{fetch()}</h1>` ☒
- b. `<h1>${fetch()}</h1>`

- c. `<h1>{fetch}</h1>`
- d. `<h1>${fetch}</h1>`

22. Which method in a React Component should you override to stop the component from updating?

- a. `willComponentUpdate`
- b. `shouldComponentUpdate` ☒
- c. `componentDidUpdate`
- d. `componentDidMount`

23. What's used to pass data to a component from outside?

- a. `setState`
- b. render with arguments
- c. `PropTypes`
- d. `Props` ☒

24. What happens when you call `setState()` inside `render()` method? [Check for correct answer]

- a. Repetitive output appears on the screen ☒
- b. Stack overflow error
- c. Duplicate key error
- d. Nothing happens

25. What is the default port for webpack dev server? [Check for correct answer]

- A. 3000 ☒
- B. 8080
- C. 3306
- D. 8809

26. Ref in react component is used to assign reference to DOM elements. Ref can be created by

- A. `React.createRef`
- B. `ref` attribute
- C. Both ☒
- D. None

27. Webpack command act as a _____

- A. Module bundler ☒
- B. Transpiler
- C. Dev server
- D. None

28. For controlled components in react

- A. DOM

- B. Component state ☒
- C. Anything
- D. None

29. Everything in React is a _____

- a. Module
- b. Component ☒
- c. Package
- d. Class

30. In which directory React Components are saved?

- a. js/components/ ☒
- b. vendor/components/
- c. external/components/
- d. vendor/

31. How many elements does a react component return?

- a. 2 Elements
- b. 1 Element ☒
- c. Multiple Elements
- d. None of These

32. What is state in React?

- a. Persistent storage
- b. Internal data store ☒

33. What is Babel?

- a. Transpolar
- b. Interpreter
- c. Compiler
- d. Both Compiler and Transpiler ☒

34. What does the "webpack" command do?

- a. Transpiles JS ☒
- b. Runs dev server
- c. Module bundler

35. What port is the default where the webpack-dev-server will run?

- a. 3000 ☒
- b. 8080
- c. 3306

36. What is ReactJS?

- a. Server Framework

- b. UI Framework
- c. A Library for building interfaces ☒
- d. None

37. What are the two ways that data gets handled in React?

- a. state & props ☒
- b. services & components

38. In React what is used to pass data to a component from outside?

- a. setState
- b. render with arguments
- c. props ☒
- d. PropTypes

39. How can you access the state of a component from inside of a member function?

- a. this.getState()
- b. this.values
- c. this.prototype.stateValue
- d. this.state ☒

40. Props are _____ into other components

- a. Methods
- b. Injected ☒
- c. Both
- d. All

41. What is a react.js in MVC?

- a. Middleware
- b. Controller ☒
- c. Model
- d. Router

42. ReactJS uses _____ to increase performance

- a. Original DOM
- b. Virtual DOM ☒
- c. Both
- d. None

43. Keys are given to a list of elements in react. These keys should be –

- a. Not unique
- b. Unique in the DOM
- c. Unique among siblings only ☒
- d. All of the above

44. Which of the following is the correct data flow sequence of flux concept?

- a. Dispatcher → Action → Store → View
- b. Action → Dispatcher → View → Store
- c. Action → Dispatcher → Store → View ☒
- d. Action → Store → Dispatcher → View

45. React.js Covers only the view layer of the app.

- a. Yes ☒
- b. No

46. What is the name of React.js Developer?

- a. Jordan Mike
- b. Jordan Lee
- c. Jordan Walke ☒
- d. Tim Lee

47. Who Develop React.js?

- a. Apple
- b. Facebook ☒
- c. Twitter
- d. Google

48. _____ helps react for keeping their data unidirectional.

- a. JSX
- b. Flux ☒
- c. DOM
- d. Props

49. We can go for keys when there is possibility that our user could change the data

- a. Keys ☒
- b. ref
- c. both
- d. none of above

50. JSX is typesafe.

- a. True ☒
- b. False

51. React merges the object you provide into the current state using _____.

- a. setState() ☒
- b. State()

52. Arbitrary inputs of components are called _____.

- a. Keys

- b. Props ☒
- c. Elements
- d. Ref

53. _____ can be done while more than one element needs to be returned from a component.

- a. Abstraction
- b. Packing
- c. Insulation
- d. Wrapping ☒

54. Which of the following needs to be updated to achieve dynamic UI updates?

- a. State ☒
- b. Props

55. Lifecycle methods are mainly used _____.

- a. To keep track of event history
- b. to enhance components ☒
- c. freeup resources
- d. none of the options

56. State can be initialized when code is loaded or state can be set on event changes.

- a. False
- b. True ☒

57. Ref is used to refer an element / component returned by _____.

- a. React ()
- b. Render () ☒
- c. Reduce ()
- d. Refer ()

58. In JSX most of the errors can be caught during _____.

- a. Interpretation
- b. Execution
- c. Compilation
- d. Build ☒

59. Components cannot refer to other components in their output.

- a. True
- b. False ☒

60. JSX is faster because it performs _____ while compiling code to JavaScript.

- a. Modification
- b. Compression

c. Optimization ☒

d. Encryption

61. If our elements are dynamic, React can keep track of the changes using keys.

a. True ☒

b. False

62. Function that does not change its results for the same set of inputs are called _____.

a. Pure functions ☒

b. Impure Functions

63. What is the smallest building block of ReactJS?

a. none of the options

b. props

c. elements

d. components ☒

64. An altered component may be uniquely identified with the help of ref.

a. True ☒

b. False

65. React considers everything as _____.

a. User interface

b. elements

c. components ☒

d. Objects

66. React keeps track of what items have changed, been added, or been removed from a list using _____.

a. state

b. props

c. keys ☒

d. ref

67. React is mainly for building _____.

a. Database

b. Connectivity

c. User interface ☒

d. Design platform

68. React supports all the syntax of _____.

a. ES6 ☒

b. Redux

- c. None of options
- d. Native Java

69. In React state can be accessed using _____.

- a. current
- b. state
- c. current()
- d. state() ☒

70. How can we prevent default behavior in React?

- a. None of the options
- b. using revokeDefault()
- c. Using preventDefault() ☒
- d. using avoidDefault()

71. Invoked once, only on the client, after rendering occurs

- a. componentWillUnmount
- b. shouldComponentUpdate
- c. componentWillMount
- d. componentDidMount ☒

72. React.js covers only the view layer of the app?

- a. True ☒
- b. False

73. Life cycle methods of a components fall under following categories?

- a. None of these
- b. Mounting, Updating, Unmounting ☒
- c. Mounting, Unmounting
- d. Mounting, Updating

74. Which is used to pass the data from parent to child?

- a. render
- b. Components
- c. props ☒
- d. state

75. ReactJS data flow implementation?

- a. No one
- b. Two way data flow
- c. one way data flow ☒

76. JSX is necessary to work with React.js?

- a. True
- b. False ☒

77. Which is used to update the state?

- a. setInitialnumber
- b. setState ☒
- c. setnumber
- d. setNewnumber

78. Which of the following called fat arrow function in React?

- a. >
- b. ->
- c. => ☒
- d. <

Chapter 1

79. React has created an abstraction called a ____

- a. Component ☒
- b. Fiber
- c. Class
- d. Interface

80. What is the better component error handling function?

- a. componentDidCatch() ☒
- b. componentDidTry()
- c. componentDidTryCatch()
- d. componentDidErrorHandle()

81. What is the correct way to rendering multiple elements and strings?

- e. Const Label=()=> 'Name:.'; Const MultiWithStrng=()=> ['first sibling', 'second sibling'].map((v,i)=> {v}) ☒

82. What function is used to create a portal component in React?

- a. createPortal() ☒
- b. portal()
- c. makePortal()
- d. componentPortal()

83. Which package defines createPortal() function?

- a. react
- b. react-dom ☒

- c. portal
 - d. react-portal
-

Chapter 2

84. How can you check installed node version?

- a. Node -v ☒
- b. Node --v
- c. Node version
- d. Node -version

85. How can you check installed npm version?

- a. Npm
- b. Npm --v
- c. Npm -v ☒
- d. Npm -version
- e. Npm --version ☒ (both c and e are correct, but we'll go with c)

86. git clone command means _____

- a. that you're copying the source code from GitHub server to your local directory. ☒
- b. cloning the source code to GitHub server
- c. copying to local server
- d. cloning to local PC

87. What is the correct way to copying source code from GitHub server?

- a. Git copy ...
- b. Git clone <https://github.com/accountName/sourcecode.git> ☒
- c. Git get ...
- d. Git install ...


88. What is the correct command to start virtual react server?

- a. Npm --start
- b. Npm start ☒
- c. Yarn start
- d. Yarn --start


89. What is the correct npm command to create package.json?

- a. Npm create package.json
- b. Npm package.json
- c. Npm init ☒
- d. Npm init package.json


90. Which tool is used for bundling all application dependency files together?

- a. Bundle
- b. Webpack 
- c. Babel
- d. Snapstart


91. What is the correct npm command to install webpack?

- a. Npm webpack
- b. Npm --install webpack
- c. Npm install --save-dev webpack 
- d. Npm --intall --save-dev webpack


92. In npm, --save-dev flag adds webpack as a

- a. Global dependency
- b. Development dependency 
- c. Local dependency
- d. Server dependency


93. Transpilation means ____

- a. Conversion
- b. Translation
- c. Source-to-source compilation 
- d. Transfer

94. Which is the most popular transpiler?

- a. Webpack
- b. Babel 
- c. Webtrspilar
- d. Codetrspiler

95. What is the correct way to install Babel transpiler?

- a. Npm intall babel-core babel-loader --save-dev 
- b. Npm install babel core ...
- c. Npm install babel loader ...
- d. Npm intall babel --save-dev

Chapter 3

96. In web application, what does HTML, CSS and JavaScript mean in separation of concerns respectively?

- a. SPA
- b. Content, Styling, Logic 

- c. Content, Logic Styling
- d. None

97. SPA stands for _____

- a. Separation Application
- b. Single Page Application ☒
- c. Separation Page Application
- d. Separation Program Application

98. Application or UI states may change by events which are

- a. User Events
- b. Server Events
- c. User and Server Events ☒
- d. None

99. What are the ways of two-way data binding?

- a. Dirty Checking ☒
- b. Key-Value Observation
- c. Value pair Observation
- d. None

100. React's virtual DOM is a _____

- a. Tree of Nodes
- b. Tree of React Nodes
- c. Tree of HTML elements
- d. Tree of JavaScript DOM ☒

101. Which of the following is/are ReactNode?

- a. ReactElement, ReactText ☒
- b. ReactText
- c. ReactElement
- d. None

102. Array of ReactNode is called _____

- a. Component
- b. Virtual DOM
- c. ReactFragment ☒
- d. None

103. What does React factory function do?

- a. Create elements ☒
- b. Create other functions
- c. Create components
- d. Create hooks

104. Which are React built-in factory functions?

- a. `React.DOM.ul()`, `React.DOM.li()`, `React.DOM.div()` ☒
- b. `React.DOM.css()`
- c. `React.DOM.class()`
- d. None

105. What is the correct prototype of `ReactDOM.render()` method?

- a. `ReactDOM.render(ReactElement, DOMEElement, callback)` ☒
- b. `ReactDOM.render(ReactComponent, FactoryFunction, callback)`
- c. `ReactDOM.render(Element, FactoryFunction, callback)`
- d. `ReactDOM.render(ReactElement, ReactFragment, callback)`

106. What is JAX?

- a. HTML-like syntax run in JavaScript ☒
- b. HTML syntax
- c. React's Language
- d. CSS in React

107. What is the correct prototype of `React.createElement()` function?

- a. `React.createElement()`
- b. `React.createElement(type)`
- c. `React.createElement(type, props, children)` ☒
- d. `React.createElement(props, children)`

108. Type parameter of `React.createElement()` function can be ____

- a. A string
- b. Either a string or `ReactClass` ☒
- c. A `ReactClass`
- d. Any

109. `ReactClass` class is created via the ____

- a. `React.createStyle()`
- b. `React.createClass()` ☒
- c. `React.createObject()`
- d. `React.create("className")`

110. The props parameter is a JavaScript object passed from

- a. A child to parent
 - b. A parent to child ☒
 - c. Sibling to sibling
 - d. Sibling to parent
-

Chapter 4

111. What is the correct syntax of creating a stateless class component?

- b. `class MyComponent extends React.Component { ... }` ✓

112. What is the correct syntax of making stateful React class component?

- d. `class ReactClass extends React.Component { state = { isHidden: false }; ... }` ✓

113. What is/are the possible ways to pass data to `render()` method using the React API?

- a. `this.props, this.state` ✓
b. `this.props`
c. `this.state`
d. `this.props()`

114. What is the main difference between `this.props` and `this.state`?

- c. `this.props` is read-only, `this.state` is private ✓

115. How does React update a class component's state?

- a. With `setState()` method ✓
b. `updteState()`
c. `changeState()`
d. `state("name")`

116. Does React support browser's native JavaScript events?

- a. True ✓
b. False

Chapter 5

117. What is the correct syntax of importing a component?

- a. `Import ComponentName from './ComponentName'` ✓
b. `Import ComponentName`
c. `Using ComponentName`
d. `Include ComponentName`

118. What is the correct syntax of exporting a component?

- a. `Export ComponentName`
b. `Export default ComponentName` ✓
c. `Default ComponentName`
d. `Publish ComponentName`
-

Chapter 6

119. What is Snapkite Engine library used for?

- a. Connect to any API
- b. Twitter Streaming API ☒
- c. Facebook Streaming API
- d. Local API

120. React class component must be implemented with at least the render() method?

- a. True ☒
- b. False

121. componentDidMount() is called only once, immediately after rendering and after state change.

- a. True
- b. False ☒

122. Which is not currently included in component's lifecycle methods?

- a. render()
- b. componentDidMount()
- c. componentWillMount() ☒
- d. constructor()
- e. componentDidCatch()

123. Which function is used to reference the DOM node?

- a. ReactDOM.findNode()
- b. ReactDOM.find()
- c. ReactDOM.findDOMNode() ☒
- d. ReactDOM.findDOM()

124. Which life cycle function is fired before React removes a component from the DOM?

- a. componentDidUnmount()
- b. componentWillUnmount() ☒
- c. componentWillRemove()
- d. componentWillDestory()

Chapter 7

125. Which life cycle is called when component receives new props?

- a. Constructor()
- b. componentDidMountReceiveProps()
- c. componentWillReceiveProps() ☒
- d. componentReceiveProps()

126. Which method allows decision for re-rendering?

- a. `componentWillUpdate()`
- b. `shouldComponentUpdate()` ✓
- c. `componentDidUpdate()`
- d. None

127. Correct prototype of `componentWillUpdate()`?

- a. `componentWillUpdate()`
- b. `componentWillUpdate(nextProps, nextState)` ✓
- c. `componentWillUpdate(nextState, nextProps)`
- d. `componentWillUpdate(nextState)`

128. Which life cycle method is fired before DOM update?

- a. `componentDidMount()`
- b. `componentWillMount()`
- c. `componentWillUpdate()` ✓
- d. `componentDidUpdate()`

129. Which method is fired after DOM update?

- a. `componentDidMount()`
- b. `componentWillMount()`
- c. `componentWillUpdate()`
- d. `componentDidUpdate()` ✓

130. Which object is used to validate React component?

- a. `Component.validate`
- b. `Component.propTypes` ✓
- c. `Component.validator`
- d. `Component.propTypes`

131. Which is NOT a `PropTypes` object?

- a. `PropTypes.number`
- b. `PropTypes.string`
- c. `PropTypes.bool`
- d. `PropTypes.object`
- e. `PropTypes.array`
- f. `PropTypes.element`

✓ (All are valid, so none is incorrect — trick question; however, often f is overlooked — but all are valid)

132. Which function is used to render collection of objects in React?

- a. Foreach()
 - b. Map() ☒
 - c. For()
 - d. Each()
-

Chapter 9

133. Facebook's unit test framework for JavaScript is called ____

- a. FaTest
- b. Jest ☒
- c. JustTest
- d. Jasmine

134. In unit testing, the fake object is called ____

- a. fakeObject
 - b. fobject
 - c. mock ☒
 - d. none
-

Chapter 10

135. What is flux?

- a. Flux is application architecture ☒
- b. A framework
- c. A library
- d. An API

136. Flux implements one-way data flow?

- a. True ☒
- b. False

137. Flux ensures data flows in single direction?

- a. True ☒
- b. False

138. In flux what are the four logical entities?

- a. Actions, Dispatchers, Components, Views
- b. Stores, Dispatchers, Components, Views
- c. Actions, Dispatchers, Stores, Views ☒
- d. Actions, Components, Stores, Views

139. In flux, Actions are objects that create app state changes?

- a. True ☒
- b. False

140. In flux, dispatcher dispatches actions to stores?

- a. True ☒
- b. False

141. Correct data flow in Flux architecture?

- a. Actions > Dispatcher > Stores ☒
 - b. Stores > Dispatcher > Actions
 - c. Actions > Stores > Dispatcher
 - d. Actions > Dispatcher
-

Chapter 12

142. What is Redux?

- a. Application architecture
- b. Framework
- c. Library ☒
- d. API

143. Main difference between Flux and Redux?

- a. Redux has one store, Flux has many ☒
- b. Redux many store
- c. Both same stores but Redux removes dispatcher
- d. None

144. What are reducers?

- a. Reducers are library
 - b. Reducers are functions that take data collection ☒
 - c. Reducers are objects
 - d. None
-

☒ Final Questions (Duplicates from Start — Recounted with Numbers)

145. What is ReactJS?

- A. Server-side Framework
- B. User-interface library ☒
- C. Both
- D. None

146. What are the limitations of ReactJS?

- A. View-only**
- B. JSX odd**
- C. Large lib**
- D. All of these** ☒

147. How can you access the state?

- A. this.getState()**
- B. this.prototype.stateValue**
- C. this.state** ☒
- D. this.values**

148. Props are _____ into components

- A. Injected** ☒
- B. Methods**
- C. Both**
- D. All**

149. MUST API for every ReactJS component?

- A. getInitialState**
- B. render** ☒
- C. renderComponent**
- D. None**

150. Lifecycle events fall into

- A. Initialization**
- B. Updates**
- C. Destruction**
- D. All of these** ☒

151. Advantages of React JS?

- A. Client/server**
- B. Readability**
- C. Can use with other frameworks**
- D. All of the above** ☒

152. What does webpack do?

- A. Transpiles JS**
- B. Runs dev server**
- C. Both A and B** ☒
- D. None**

153. ReactJS in MVC is

- A. Controller** ☒

- B. Middleware**
- C. Model**
- D. Router**

154. Output of render with two divs?

- A. Hello world 1**
- B. Hello world 2**
- C. Both**
- D. Error** ☒

155. Valid component returns how many elements?

- A. 1** ☒
- B. 2**
- C. 3**
- D. 4**

156. React state is

- A. Permanent**
- B. Internal storage** ☒
- C. Both**
- D. None**

157. Props can

- A. Be changed**
- B. Not be changed** ☒
- C. Changed in other**
- D. None**

158. setState is

- A. Synchronous**
- B. Asynchronous** ☒
- C. Both**
- D. None**

159. On state change, component

- A. Does nothing**
- B. Re-renders** ☒
- C. Recreated**
- D. None**

160. componentDidMount called when

- A. First time** ☒
- B. Update**

- C. Both
- D. None

161. Keys should be

- A. Unique in DOM
- B. Among siblings ☒
- C. Not unique
- D. None

162. Upload file in React requires

- A. Controlled
- B. Uncontrolled
- C. Both ☒
- D. None

163. Babel is a

- A. Interpreter
- B. Compiler
- C. Transpiler
- D. Both B & C ☒

164) How do you access a function `fetch()` from a `h1` element in JSX?

- a. `<h1>{fetch()}</h1>` ☒
 - b. `<h1>${fetch()}</h1>`
 - c. `<h1>{fetch}</h1>`
 - d. `<h1>${fetch}</h1>`
-

165) Which method in a React Component should you override to stop the component from updating?

- a. `willComponentUpdate`
 - b. `shouldComponentUpdate` ☒
 - c. `componentDidUpdate`
 - d. `componentDidMount`
-

166) What's used to pass data to a component from outside?

- a. `setState`
- b. render with arguments
- c. `PropTypes`
- d. `Props` ☒

167) What happens when you call `setState()` inside `render()` method?

- a. Repetitive output appears on the screen ☒
 - b. Stack overflow error
 - c. Duplicate key error
 - d. Nothing happens
-

168) What is the default port for webpack dev server?

- A. 3000 ☒
 - B. 8080
 - C. 3306
 - D. 8809
-

169) Ref in React component is used to assign reference to DOM elements. Ref can be created by

- A. Calling `React.createRef` method
 - B. Assigning a value to ref attribute in JSX
 - C. Both of above ☒
 - D. None of above
-

170) Webpack command acts as a _____

- A. module bundler ☒
 - B. transpiler to transpile all JS into 1 file
 - C. runs local dev server
 - D. none
-

171) For controlled components in React

- A. Source of truth is DOM
- B. Source of truth is component state ☒
- C. Source of truth can be anything
- D. None of above

Descriptive Questions:

1. How Virtual-DOM works in React?

Ans: React creates a virtual copy of the real DOM in memory. When the state changes, it compares the new Virtual DOM with the previous one using a diffing algorithm, and then updates only the changed parts in the actual DOM, making rendering efficient.

2. What is JSX?

Ans: JSX (JavaScript XML) is a syntax extension that allows writing HTML-like code inside JavaScript. It makes it easier to write and visualize the UI structure directly within React components.

3. What is ReactDOM and what is the difference between ReactDOM and React?

Ans: **ReactDOM** is a package used to interact with the actual DOM, e.g., rendering components. **React** is the core library used for creating components and managing logic. ReactDOM handles rendering; React handles component logic.

4. What are the differences between a class component and functional component?

Ans: Class components are ES6 classes with lifecycle methods and **this.state**. Functional components are simple JavaScript functions, often using React Hooks for state and lifecycle features.

5. What is the difference between state and props?

Ans: **State** is managed internally in a component and can be changed. **Props** are read-only and passed from parent to child components to display dynamic data.

6. What do you understand by refs in React?

Ans: Refs (references) are used to access or interact directly with DOM elements or child components without re-rendering the component.

7. Why are fragments better than container divs?

Ans: Fragments (`<>...</>`) allow grouping elements without adding extra nodes to the DOM, which helps avoid unnecessary wrappers and keeps the DOM cleaner.

8. Explain the lifecycle methods of React components

Ans: Lifecycle methods are special functions in class components like `componentDidMount()`, `componentDidUpdate()`, and `componentWillUnmount()` that allow code to run at specific stages of a component's life.

9. Explain the Flux concept.

Ans: Flux is a one-way data flow architecture for managing application state. It uses actions, dispatchers, stores, and views to handle data updates in a predictable way.

10. What do you understand by refs in React?

Ans: Refs are special attributes that allow direct access to DOM elements or React elements created in the render method, useful for focus control or animations.

11. Why are fragments better than container divs?

Ans: Fragments help avoid unnecessary `div` wrappers in the DOM, which improves performance and avoids issues with CSS or layout nesting.

12. Explain the lifecycle methods of React components.

Ans: Lifecycle methods control what happens when a component mounts (`componentDidMount`), updates (`componentDidUpdate`), or unmounts (`componentWillUnmount`), helping manage side effects.

13. Explain the Flux concept.

Ans: Flux is an architecture where data flows in a single direction: from actions to dispatcher to stores to views, simplifying data management in large applications.

14. What is React Router?

Ans: React Router is a library used to handle navigation in single-page applications (SPA). It enables switching between different views without page reloads.

15. How Virtual-DOM works in React?

Ans: React updates a virtual copy of the DOM first. Then it compares the changes (diffing), and updates only the necessary parts in the real DOM efficiently.

16. What is JSX?

Ans: JSX lets us write HTML inside JavaScript. It's syntactic sugar that compiles to `React.createElement()` calls, making UI code easier to write and understand.

17. What is ReactDOM and what is the difference between ReactDOM and React?

Ans: React handles components and logic, while ReactDOM provides methods like `ReactDOM.render()` to mount components into the actual DOM.

18. What are the differences between a class component and functional component?

Ans: Class components use `class` syntax and can use lifecycle methods. Functional components use plain functions and can use Hooks for state and lifecycle.

19. What is the difference between state and props?

Ans: State is internal and mutable. Props are passed from parent to child and are immutable. State changes with `setState()`, props cannot be changed by the child.

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