**Generated MCQs**

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**Q1: What platform is typically needed for ReactJS development?**

A) Java Development Kit (JDK)

B) Python Interpreter

**C) NodeJS**

D) Ruby Version Manager

**Correct Answer: C**

**Q2: What is ReactJS primarily used for building?**

A) Server-side logic

B) Database management

**C) User Interfaces (UI)**

D) Operating systems

**Correct Answer: C**

**Q3: Which company initially developed and maintained ReactJS?**

A) Google

B) Microsoft

**C) Facebook**

D) Apple

**Correct Answer: C**

**Q4: What feature does React use to improve app performance compared to manipulating the regular DOM directly?**

A) Shadow DOM

**B) Virtual DOM**

C) Linked Lists

D) Web Workers

**Correct Answer: B**

**Q5: What does React create in memory before making changes to the browser's DOM?**

A) A copy of the CSS

B) A temporary file

**C) A VIRTUAL DOM**

D) A database snapshot

**Correct Answer: C**

**Q6: What is JSX an extension of?**

A) HTML

B) CSS

**C) JavaScript**

D) XML

**Correct Answer: C**

**Q7: In React, thinking of everything in terms of what helps maintain code in larger projects?**

A) Functions

B) Variables

**C) Components**

D) Modules

**Correct Answer: C**

**Q8: Which term describes the data flow pattern implemented by React?**

A) Two-way data binding

B) Bidirectional data flow

**C) Unidirectional data flow**

D) Multi-directional data flow

**Correct Answer: C**

**Q9: What is one advantage of using ReactJS?**

A) Difficult to learn

B) Slow performance

**C) Reusable Components**

D) Only works on the server-side

**Correct Answer: C**

**Q10: Which command is maintained by Facebook for easily setting up a React environment?**

A) npm init react

**B) create-react-app**

C) setup-react-env

D) react-install wizard

**Correct Answer: B**

**Q11: What command is used to check the installed Node.js version in the terminal?**

**A) node -v**

B) node check

C) version node

D) npm node -v

**Correct Answer: A**

**Q12: Which file typically holds metadata and project dependencies for an npm project?**

A) index.html

B) App.js

**C) package.json**

D) README.md

**Correct Answer: C**

**Q13: What tool is used to compile React JSX and newer JavaScript (ES6) into older JavaScript (ES5) compatible with most browsers?**

A) Webpack

B) Node

**C) Babel**

D) npm

**Correct Answer: C**

**Q14: In a typical `create-react-app` project structure, where are the main application components like `App.js` located?**

A) public folder

B) node\_modules folder

C) root directory

**D) src folder**

**Correct Answer: D**

**Q15: Which function is used to render React elements into the DOM?**

A) React.renderHTML()

**B) ReactDOM.render()**

C) React.display()

D) DOM.showReact()

**Correct Answer: B**

**Q16: What does JSX stand for?**

A) JavaScript Syntax Extension

B) Java Source XML

**C) JavaScript XML**

D) JSON Script Xchange

**Correct Answer: C**

**Q17: How are HTML attributes like 'class' typically written in JSX?**

A) class

B) htmlClass

**C) className**

D) jsx-class

**Correct Answer: C**

**Q18: What are the two types of components mentioned in the text?**

A) Simple and Complex

B) Static and Dynamic

**C) Functional and Class**

D) Parent and Child

**Correct Answer: C**

**Q19: What is the term for data passed down from a parent component to a child component?**

A) State

B) Arguments

**C) Props**

D) Variables

**Correct Answer: C**

**Q20: Can props be modified directly by the child component that receives them?**

A) Yes, always

B) Yes, but only in class components

**C) No, props are immutable**

D) No, only state can be modified

**Correct Answer: C**

**Q21: What is the term for data that is managed within a component and can change over time?**

A) Props

**B) State**

C) Context

D) Refs

**Correct Answer: B**

**Q22: Which method should be used to modify a component's state?**

A) this.state = newState

B) modifyState(newState)

**C) this.setState(newState)**

D) changeState(newState)

**Correct Answer: C**

**Q23: In React event handling, how is an event handler typically passed to an element like a button?**

A) As a string (e.g., "handleClick()")

**B) As a function reference (e.g., {handleClick})**

C) Using the `addEventListener` method directly

D) Inside the `data-event` attribute

**Correct Answer: B**

**Q24: What type of component maintains its own internal state regarding form data?**

A) Uncontrolled Component

B) Stateless Component

C) Functional Component

**D) Controlled Component**

**Correct Answer: D**

**Q25: What is React Router used for in React applications?**

A) Managing component state

B) Styling components

**C) Handling navigation and routing between pages**

D) Making API requests

**Correct Answer: C**

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