## React.js

Q1. If you want to import just the Component from the React library, what syntax do youse?	Οl
<pre>import React.Component from 'react' import [ Component ] from 'react' import Component from 'react'</pre>	
<pre>import { Component } from 'react'</pre>	
Q2. If a function component should always render the same way given the same props	,
what is a simple performance optimization available for it?	
Wrap it in the React.memo higher-order component.	
Implement the useReducer Hook.	
Implement the useMemo Hook.	
Implement the shouldComponentUpdate lifecycle method.	
Q3. How do you fix the syntax error that results from running this code?  const person =(firstName, lastName) =>	
{	ָר ק
first: firstName,	
last: lastName	
}	
<pre>console.log(person("Jill", "Wilson"))</pre>	
Wrap the object in parentheses.	
Call the function from another file.	
Add a return statement before the first curly brace.	
Replace the object with an array.	
Q4. If you see the following import in a file, what is being used for state management is	in
the component?	
<pre>import React, {useState} from 'react';</pre> ✓ React Hooks	
stateful components	
math	
class components	
Q5. Using object literal enhancement, you can put values back into an object. When yo	11
log person to the console, what is the output?	_
<pre>const name = 'Rachel';</pre>	_
const age = 31;	ل
<pre>const person = { name, age };</pre>	
<pre>console.log(person);</pre>	
<pre>{{name: "Rachel", age: 31}}</pre>	
<pre> {name: "Rachel", age: 31}</pre>	
<pre>[</pre>	
<pre>[</pre>	
O6 What is the testing library most often associated with React?	

<ul><li>■ Mocha</li><li>■ Chai</li><li>■ Sinon</li><li>☑ Jest</li></ul>	
Reference Q7. To get the first item from the array ("cooking") using array destructuring, how do	
you adjust this line?  const topics = ['cooking', 'art', 'history'];	
<pre>const first = ["cooking", "art", "history"] const [] = ["cooking", "art", "history"] const [, first]["cooking", "art", "history"] const [first] = ["cooking", "art", "history"]  Q8. How do you handle passing through the component tree without having to pass props down manually at every level?     React Send     React Pinpoint</pre>	
React Router React Context  Reference  Q9. What should the console read when the following code is run?  const [, , animal] = ['Horse', 'Mouse', 'Cat'];  console.log(animal);	
<ul> <li>☐ Horse</li> <li>☑ Cat</li> <li>☐ Mouse</li> <li>☐ undefined</li> <li>Q10. What is the name of the tool used to take JSX and turn it into createElement calls?</li> <li>☐ JSX Editor</li> <li>☐ ReactDOM</li> <li>☐ Browser Buddy</li> </ul>	
Babel  Q11. Why might you use useReducer over useState in a React component?  when you want to replace Redux  when you need to manage more complex state in an app  when you want to improve performance  when you want to break your production app  Q12. Which props from the props object is available to the component with the following syntax?	g

```
<Message {...props} />
 any that have not changed
 ✓ all of them
 child props
 any that have changed
Q13. Consider the following code from React Router. What do you call :id in the path
prop?
<Route path="/:id" />
                                                                                  ربا
 This is a route modal
 This is a route parameter
 This is a route splitter
 This is a route link
Q14. If you created a component called Dish and rendered it to the DOM, what type of
element would be rendered?
function Dish() {
                                                                                  بار
  return <h1>Mac and Cheese</h1>;
}
ReactDOM.render(<Dish />, document.getElementById('root'));
 div
 section
 component
 √ h1
Q15. What does this React element look like given the following code? (Alternative:
Given the following code, what does this React element look like?)
React.createElement('h1', null, "What's happening?");
                                                                                  ſŪ
 <h1 props={null}>What's happening?</h1>
 <h1>What's happening?</h1>
 <h1 id="component">What's happening?</h1>
    <h1 id="element">What's happening?</h1>
Reference
Q16. What property do you need to add to the Suspense component in order to display
a spinner or loading state?
function MyComponent() {
                                                                                  ſŪ
  return (
    <Suspense>
      <div>
        <Message />
      </div>
```

); }	
□ lazy	
loading	
✓ fallback	
spinner	
Reference	
Q17. How would you describe the message variable wrapped in curly braces below? const message = 'Hi there';	
<pre>const element = {message};</pre>	Ç
a JS function	
a JS element	
✓ a JS expression	
a JSX wrapper	
Q18. What can you use to handle code splitting?	
<pre>React.memo</pre>	
<pre>React.split</pre>	
✓ React.lazy	
<pre>React.fallback</pre>	
Reference	
Q19. When do you use useLayoutEffect?	
to optimize for all devices	
to complete the update	
to change the layout of the screen	
when you need the browser to paint before the effect runs	
[Source] ( <a href="https://react.dev/reference/react/useLayoutEffect">https://react.dev/reference/react/useLayoutEffect</a> ) "useLayoutEffect is a version of the state of the	on of
useEffect that fires before the browser repaints the screen."	
[Explanation]The correct answer to the question "When do you use useLayoutEffect?" i	S:
When you need to change the layout of the screen.	
useLayoutEffect is used when you need to perform DOM mutations that rely on the	برامين
updated layout of the elements. It allows you to make changes to the DOM synchrono	usiy
before the browser performs its painting step. This can be useful when you need to measure or manipulate the layout, such as accessing element dimensions or positions,	
calculating scroll offsets, or performing other operations that require up-to-date layou	
information.	·
The other option provided as answer is not accurate:	
"When you need the browser to paint before the effect runs" is not correct. The purpose	se of
useLayoutEffect is to run the effect synchronously after the DOM updates but before the	

browser paints, allowing you to make layout-related changes before the visual rendering

</Suspense>

occurs.

**Explanation:** useLayoutEffect gets executed before the useEffect hook without much concern for DOM mutation. Even though the React hook useLayoutEffect is set after the useEffect Hook, it gets triggered first! Q20. What is the difference between the click behaviors of these two buttons (assuming that this.handleClick is bound correctly)? A. <button onClick={this.handleClick}>Click Me</button> ιÖ B. <button onClick={event => this.handleClick(event)}>Click Me</button> Button A will not have access to the event object on click of the button. Button B will not fire the handler this.handleClick successfully. Button A will not fire the handler this.handleClick successfully. There is no difference. Q21. How do you destructure the properties that are sent to the Dish component? function Dish(props) { ιÖ return ( <h1> {props.name} {props.cookingTime} </h1> ); function Dish([name, cookingTime]) { return <h1>{name} {cookingTime}</h1>; } function Dish({name, cookingTime}) { return <h1>{name} {cookingTime}</h1>; } function Dish(props) { return <h1>{name} {cookingTime}</h1>; } function Dish(...props) { return <h1>{name} {cookingTime}</h1>; } Q22. When might you use React.PureComponent? when you do not want your component to have props when you have sibling components that need to be compared when you want a default implementation of shouldComponentUpdate() when you do not want your component to have state Reference Q23. Why is it important to avoid copying the values of props into a component's state where possible? because you should never mutate state because getDerivedStateFromProps() is an unsafe method to use because you want to allow a component to update in response to changes in the props because you want to allow data to flow back up to the parent Q24. What is the children prop? a property that adds child components to state a special property that JSX creates on components that contain both an opening tag and a closing tag, referencing it's contents. a property that lets you set an array as a property a property that lets you pass data to child elements Reference

Q25. Which attribute is React's replacement for using innerHTML in the browser DOM?
□ injectHTML
✓ dangerouslySetInnerHTML
■ weirdSetInnerHTML
■ strangeHTML
Reference
Q26. Which of these terms commonly describe React applications?
✓ declarative
integrated
closed
imperative
Reference
Q27. When using webpack, why would you need to use a loader?
to put together physical file folders
✓ to preprocess files
to load external data
to load the website into everyone's phone
Q28. A representation of a user interface that is kept in memory and is synced with the
"real" DOM is called what?
✓ virtual DOM
□ DOM
virtual elements
shadow DOM
Q29. You have written the following code but nothing is rendering. How do you fix this
problem?
const Heading = () => {
<pre></pre>
}; 
Add a render function.
Change the curly braces to parentheses or add a return statement before the h1 tag.
Move the h1 to another component.
Surround the h1 in a div.
Q30. To create a constant in JavaScript, which keyword do you use?
✓ const
let
constant
var
Q31. What do you call a React component that catches JavaScript errors anywhere in the
child component tree?
error bosses
error catchers
error helpers
error boundaries

Reference	
Q32. In which lifecycle method do you make requests for data in a class componer	it?
constructor	
componentWillReceiveProps	
componentWillMount	
Reference	
Q33. React components are composed to create a user interface. How are compon	ents
composed?	
by putting them in the same file	
by nesting components	
with webpack	
with code splitting	
Q34. All React components must act like _ with respect to their props.	
monads	
pure functions	
recursive functions	
higher-order functions	
Q35. What is [e.target.id] called in this code snippet?	
<pre>const handleChange = (e) =&gt; {</pre>	ي
<pre>setState((prevState) =&gt; ({prevState, [e.target.id]: e.target.value }));</pre>	
a computed property name	
a set value	
a dynamic key	
a JSX code string	
Reference	
Q36. What is the name of this component? class Clock extends React.Component {	
render() {	Q
return <h1>Look at the time: {time}</h1> ;	
}	
}	
✓ Clock	
■ It does not have a name prop.	
React.Component	
Component	
Q37. What is sent to an Array.map() function?	
a callback function that is called once for each element in the array	
the name of another array to iterate over	
the number of times you want to call the function	
a string describing what the function should do	
Q38. Why is it a good idea to pass a function to setState instead of an object?	

<ul><li>It provides better encapsulation.</li><li>It makes sure that the object is not mutated.</li></ul>
It automatically updates a component.
setState is asynchronous and might result in out of sync values.
Reference
<b>Explanation:</b> Because this.props and this.state may be updated asynchronously, you should not rely on their values for calculating the next state.
Q39. What package contains the render() function that renders a React element tree to
the DOM?
React
✓ ReactDOM
Render
DOM
Q40. How do you set a default value for an uncontrolled form field?
Use the value property.
✓ Use the defaultValue property.
Use the default property.
It assigns one automatically.
Q41. What do you need to change about this code to get this code to run?
<pre>const clock = (props) =&gt; {</pre>
return <h1>Look at the time: {props.time}</h1> ;
};
Add quotes around the return value
Remove this
Remove the render method
✓ Capitalize clock
Reference
<b>Explanation:</b> In JSX, lower-case tag names are considered to be HTML tags.
Q42. Which Hook could be used to update the document's title?
<pre>useEffect(function updateTitle() { document.title = name + ' ' + lastname; });</pre>
<pre>useEffect(() =&gt; { title = name + ' ' + lastname; });</pre>
<pre>useEffect(function updateTitle() { name + ' ' + lastname; });</pre>
<pre>useEffect(function updateTitle() { title = name + ' ' + lastname; });</pre>
Q43. Which function from React can you use to wrap Component imports to load them
lazily?
fallback
<pre>split</pre>
lazy
memo
Reference
Q44. How do you invoke setDone only when component mounts, using hooks?
function MyComponent(props) {
const [done, setDone] = useState(false);

```
return <h1>Done: {done}</h1>;
 useEffect(() => { setDone(true); });
 useEffect(() => { setDone(true); }, []);
 useEffect(() => { setDone(true); }, [setDone]);
 useEffect(() => { setDone(true); }, [done, setDone]);
Q45. Currently, handleClick is being called instead of passed as a reference. How do
you fix this?
<button onClick={this.handleClick()}>Click this</button>
                                                                               ربا
 <button onClick={this.handleClick.bind(handleClick)}>Click this</button>
 <button onClick={handleClick()}>Click this</button>
 <button onclick={this.handleClick}>Click this</button>
Q46. Which answer best describes a function component?
 ■ A function component is the same as a class component.
 A function component accepts a single props object and returns a React element.
 A function component is the only way to create a component.
 A function component is required to create a React component.
Q47. Which library does the fetch() function come from?
 FetchJS
 ReactDOM
 No library. fetch() is supported by most browsers.
 React
Q48. What will happen when this useEffect Hook is executed, assuming name is not
already equal to John?
useEffect(() => {
                                                                               ſĠ
  setName('John');
}, [name]);
 It will cause an error immediately.
 ■ It will execute the code inside the function, but only after waiting to ensure that no
    other component is accessing the name variable.
 It will update the value of name once and not run again until name is changed from
    the outside.
 It will cause an infinite loop.
Q49. Which choice will not cause a React component to rerender?
 if the component calls this.setState(...)
 the value of one of the component's props changes
 if the component calls this.forceUpdate()
 one of the component's siblings rerenders
```

```
Q50. You have created a new method in a class component called handleClick, but it is
not working. Which code is missing?
class Button extends React.Component{
                                                                                ſŪ
  constructor(props) {
    super(props);
   // Missing line
 }
 handleClick() {...}
}
 this.handleClick.bind(this);
 props.bind(handleClick);
 this.handleClick.bind();
 this.handleClick = this.handleClick.bind(this);
Q51. React does not render two sibling elements unless they are wrapped in a fragment.
Below is one way to render a fragment. What is the shorthand for this?
<React.Fragment>
                                                                                ſĠ
  <h1>Our Staff</h1>
  Our staff is available 9-5 to answer your questions
</React.Fragment>
 <...>
                                                                                ſĊ
  <h1>Our Staff</h1>
 Our staff is available 9-5 to answer your questions
</...>
 \Box B
<//>
                                                                                ſĊ
 <h1>Our Staff</h1>
 Our staff is available 9-5 to answer your questions
<///>
 <>
                                                                                ſĊ
  <h1>Our Staff</h1>
  Our staff is available 9-5 to answer your questions
</>>
 <Frag>
                                                                                ιÖ
 <h1>Our Staff</h1>
  Our staff is available 9-5 to answer your questions
</Frag>
Q52. If you wanted to display the count state value in the component, what do you need
to add to the curly braces in the h1?
class Ticker extends React.component {
                                                                                ſĊ
  constructor(props) {
```

```
super(props);
    this.state = { count: 0 };
 render() {
    return <h1>{}</h1>;
 }
}
 this.state.count
 count
 state
 state.count
Q53. Per the following code, when is the Hello component assigned to greeting?
const greeting = isLoggedIn ? <Hello /> : null;
                                                                                 ιÖ
 never
 when isLoggedIn is true
 when a user logs in
 when the Hello function is called
Q54. In the following code block, what type is orderNumber?
ReactDOM.render(<Message orderNumber="16" />, document.getElementById('root'));
                                                                                 ſĠ
 string
 boolean
 object
 number
Q55. You have added a style property to the h1 but there is an unexpected token error
when it runs. How do you fix this?
const element = <h1 style={ backgroundColor: "blue" }>Hi</h1>;
                                                                                 ſĠ
 const element = <h1 style="backgroundColor: "blue""}>Hi</h1>;
 const element = <h1 style={{backgroundColor: "blue"}}>Hi</h1>;
 const element = <h1 style={blue}>Hi</h1>;
 const element = <h1 style="blue">Hi</h1>;
Q56. Which function is used to update state variables in a React class component?
 replaceState
 refreshState
 updateState
 ✓ setState
Q57. Consider the following component. What is the default color for the star?
const Star = ({ selected = false }) => <Icon color={selected ? 'red' : 'grey'}</pre>
```

<pre>□ black □ red □ grey □ white  Q58. What is the difference between the click behaviors of these two buttons(asset that this.handleClick is not bound correctly)  A. <button onclick="this.handleClick">Click Me</button> B. <button =="" onclick="{event"> this.handleClick(event)}&gt;Click Me</button></pre>	uming 
■ Button A will not have access to the event object on click of the button ■ Button A will not fire the handler this.handleClick successfully ■ There is no difference ■ Button B will not fire the handler this.handleClick successfully  Q59. How would you add to this code, from React Router, to display a component	t called
About?  ✓ A <route path="/:id"> {' '}  <about></about></route>	<del>C</del>
<pre>     B <route about="{Component}" path="/tid"></route></pre>	<del>C</del>
<pre>C <route path="/:id" route="{About}"></route></pre>	<del>C</del>
<pre>D <route>   <about path="/:id"></about> </route></pre>	<del>C</del>
<pre>Reference Q60. Which class-based component is equivalent to this function component? const Greeting = ({ name }) =&gt; <h1>Hello {name}!</h1>;</pre>	<del>C</del>
<pre>A class Greeting extends React.Component {   constructor() {     return <h1>Hello {this.props.name}!</h1>;   } }</pre>	<del>C</del>
} <b>B</b>	

```
class Greeting extends React.Component {
                                                                                   ſĠ
  <h1>Hello {this.props.name}!</h1>;
 V C
class Greeting extends React.Component {
                                                                                   ſŪ
  render() {
    return <h1>Hello {this.props.name}!</h1>;
}
 class Greeting extends React.Component {
                                                                                   ſŪ
  render({ name }) {
    return <h1>Hello {name}!</h1>;
  }
Q61. Give the code below, what does the second argument that is sent to the render
function describe?
ReactDOM.render(
                                                                                   ſŪ
  <h1>Hi<h1>,
    document.getElementById('root')
 where the React element should be added to the DOM
 where to call the function
 where the root component is
 where to create a new JavaScript file
Q62. Why should you use React Router's Link component instead of a basic <a> tag in
React?
 ■ The link component allows the user to use the browser's Back button.
 ■ There is no difference--the Link component is just another name for the <a> tag.
 ■ The <a> tag will cause an error when used in React.

☑ The ⟨a⟩ tag triggers a full page reload, while the Link component does not.

Q63. What is the first argument, x, that is sent to the createElement function?
React.createElement(x, y, z);
                                                                                   Ċ
 the element that should be created
 the order in which this element should be placed on the page
 the properties of the element
 data that should be displayed in the element
Q64. Which class-based lifecycle method would be called at the same time as this effect
Hook?
```

```
useEffect(() => {
 // do things
}, []);
 componentWillUnmount
 componentDidMount
 render
 componentDidUpdate
Reference
Q65. What is the name of the base component of this component?
class Comp extends React.Component {
                                                                                ſŪ
 render() {
    return <h1>Look at the time: {time}</h1>;
  }
}
 Comp
 h1
 React.Component
 Component
Q66. When using a portal, what is the first argument?
ReactDOM.createPortal(x, y);
                                                                                ſŪ
 the current state
 the element to render
 the App component
 the page
Reference
Q67. What is setCount?
const [count, setCount] = useState(0);
                                                                                þ
 the initial state value
 a variable
 a state object
 a function to update the state
Reference
Q68. What is the use of map function below?
const database = [{ data: 1 }, { data: 2 }, { data: 3 }];
                                                                                ſŪ
database.map((user) => <h1>{user.data}</h1>);
 gives a map of all the entries in database
 returns a heading tag for every entry in the database containing it's data
 returns one heading tag for all the entries in database
 checks which entry in the database is suitable for heading tag
```

```
Q69. Describe what is happening in this code?
const { name: firstName } = props;
                                                                                  ſĠ
 It is creating a new object that contains the same name property as the props object.
 It is assigning the value of the props object's firstName property to a constant called
    name.
 It is retrieving the value of props.name.firstName.
 It is assigning the value of the props object's name property to a constant called
    firstName.
Q70. What is wrong with this code?
const MyComponent = ({ names }) => (
                                                                                  ſŪ
  <h1>Hello</h1>
  Hello again
);
 React components cannot be defined using functions.
 React does not allow components to return more than one element.
 ■ The component needs to use the return keyword.
 String literals must be surrounded by quotes.
Q71. When using a portal, what is the second argument?
ReactDOM.createPortal(x, y);
                                                                                  ſŪ
 the App component
 the page
 the current state
 the DOM element that exists outside of the parent component
Q72. Given this code, what will be printed in the <div> tag?
const MyComponent = ({ children }) => (
                                                                                  ſĠ
  <div>{children.length}</div>
);
<MyComponent>
  Hello <span>World!</span>
Goodbye
</MyComponent>
 It will produce an error saying "cannot read property "length" of undefined."
 undefined
 2
Q73. What is this pattern called?
const [count, setCount] = useState(0);
```

<ul> <li>object destructuring</li> <li>array destructuring</li> <li>spread operating</li> <li>code pushing</li> <li>Q74. What is the first file loaded by the browser in a basic React project?</li> <li>src/App.js</li> <li>src/index.js</li> </ul>	
public/manifest.json	
public/index.html  O75. The code below is rendering nothing and generates this error: "PeactDOM is n	o t
Q75. The code below is rendering nothing and generates this error: "ReactDOM is n defined." How do you fix this issue?	Οί
<pre>import React from 'react';</pre>	
<pre>import { createRoot } from 'reactjs-dom';</pre>	<del>O</del>
<pre>const element = <h1>Hi</h1>;</pre>	
// Note: error on the line below	
<pre>const root = ReactDOM.createRoot(document.getElementById('root'));</pre>	
<pre>root.render(element);</pre>	
<pre>createRoot(document.getElementById("root"));</pre>	
<pre>ReactDOM(element, document.getElementById("root"));</pre>	
<pre>renderDOM(element, document.getElementById("root"));</pre>	
<pre>DOM(element, document.getElementById("root"));</pre>	
Q76. In this component, how do you display whether the user was logged in or not?	1
render() {	ي
<pre>const isLoggedIn = this.state.isLoggedIn;</pre>	
return (	
<div> The user is:</div>	
);	
}	
The user is loggedIn ? logged in : not logged in.	
Write a function to check the login status.	
<pre>The user is {isLoggedIn = "no"}.</pre>	
<pre>The user is {isLoggedIn ? "logged in." : "not logged in"}.</pre>	
Q77. You are rendering a list with React when this warning appears in the console:	
"Warning: Each child in a list should have a unique 'key' prop." How do you fix this i	ssue
Add a key prop with the same value to each item in the list	
Clear the console warnings	
Use the UseId hook to generate a unique key for each element in the list	
When iterating over the list items, add a unique property to each list item.	

Q78. How would you generate the boilerplate code for a new app that you are build to collect underpants?	ling
npm create-react-app collect-underpants	
npx start-app collect-underpants	
react new collect-underpants	
npx create-react-app collect-underpants	
Source: React Docs	
Q79. Add the code that will fire the photon torpedoes when the button is clicked.	
class StarTrekkin extends React.Component {	-C
<pre>firePhotonTorpedoes(e) {</pre>	ب
<pre>console.log('pew pew');</pre>	
}	
render() {	
return; // Missing code	
} }	
<pre><button onclick="{firePhotonTorpedoes()}">Pew Pew</button></pre>	
<pre>cbutton onClick={firePhotonTorpedoes}&gt;Pew Pew</pre>	
<pre>cbutton onClick={this.firePhotonTorpedoes()}&gt;Pew Pew</pre>	
<pre></pre>	
Source: React Docs	
Q80. What is the process of deciding whether an update is necessary?	
shadow DOM	
□ fiber	
✓ reconciliation	
setting state	
Q81. React is an open-source project but is maintained by which company?	
Intuit	
☐ Twitter	
✓ Facebook	
Snapchat	
Q82. What command can you use to generate a React project?	
□ react-starter	
□ react-gen	
react-start	
hint	
Q83. What is the browser extension called that React developers use to debug	
applications?	
React Developer Tools	
React Tooling Add-on	
React Codewatch	
React Debug	

Q84. Which tool is not part of Create React App?	
React	
☑ jQuery	
webpack	
■ ReactDOM	
Q85. What is the JavaScript syntax extension that is commonly used to create Reac	t
elements?	
HTML	
☐ JavaScriptX	
✓ JSX	
React JavaScript	
Q86. How might you check property types without using Flow or TypeScript?  — Check Manually.	
Use prop-helper.	
✓ use prop-types.	
user checker-types.	
Q87. How do you add an id of heading to the following h1 element?	
let dish = <h1>Mac and Cheese</h1> ;	_
	٦
lot dish - whi id-(hooding) > Mas and Choose w/hi>	
<pre>let dish = <h1 id="{heading}">Mac and Cheese</h1>;</pre>	
<pre>let dish = <h1 id="heading">Mac and Cheese</h1>;</pre>	
<pre>let dish = <h1 id:"heading"="">Mac and Cheese</h1>;</pre>	
<pre>let dish = <h1 class="heading">Mac and Cheese</h1>; Q88. What value of button will allow you to pass the name of the person to be hug</pre>	and2
class Huggable extends React.Component {	geu
hug(id) {	G
console.log("hugging " + id);	
}	
render() {	
<pre>let name = "kitten";</pre>	
<pre>let button = // Missing code</pre>	
return button;	
}	
}	
<pre></pre>	
<pre></pre>	
<pre></pre>	
<pre><button =="" onclick="{(e)"> this.hug(name, e)}&gt;Hug Button</button>;</pre>	
<b>Explanation:</b> This question test knowledge of react class components. You need to	
use this in order to call methods declared inside class components.	
Q89. What syntax do you use to create a component in React?	
a generator	
☑ a function or a class	

a service worker
a tag
<u>Reference</u>
<b>Explanation:</b> React Components are like functions that return HTML elements. Components are independent and reusable bits of code. They serve the same purpose as JavaScript functions, but work in isolation and return HTML. Components come in two types, Class components and Function components.
Q90. You want to disable a button so that it does not emit any events onClick. Which
prop do you use to acomplish this?
onBlur
onPress
defaultValue
✓ disabled
Q91. In this function, which is the best way to describe the Dish component?
function Dish() {
return (
<pre>&lt;&gt; .Transdignt ()</pre>
<ingredient></ingredient> <ingredient></ingredient>
>
);
}
child component
parent component
nested component
sibling component
Q92. When does the componentDidMount function fire?
right after the component is added to the DOM
before the component is added to the DOM
right after the component is updated
□ right after an API call
Reference
Q93. What might you use webpack for in React development?
to fetch remote dependencies used by your app
to split your app into smaller chunks that can be more easily loaded by the browser
to format your code so that it is more readable
to ensure your app is not vulnerable to code injection
Q94. When using the React Developer Tools Chrome extension, what does it mean if the
React icon is red?
✓ You are using the development build of React.
You are using the production build of React.
☐ You are using Create Boast App
■ You are using Create React App.

Reference	
Q95. How would you modify the constructor to fix this error: "ReferenceError: M	lust cal
super constructor in derived class before accessing 'this'"?	
class TransIsBeautiful extends React.Component {	_
constructor(props){	ے
// Missing line	
<pre>console.log(this);</pre>	
}	
•••	
}	
render(props);	
super(props);	
super(this);	
this.super();	
Q96. Which language can you not use with React?	
Swift.	
■ JSX.	
☐ Javascipt.	
TypeScript.	
Q97. This code is part of an app that collects Pokemon. How would you print the	e list of
the ones collected so far?	
constructor(props) {	_
super(props);	근
this.state = {	
pokeDex: []	
<b>}</b> ;	
}	
console.log(props.pokeDex);	

- console.log(this.props.pokeDex);
- console.log(pokeDex);
- console.log(this.state.pokeDex);

## Reference

Q98. What would be the result of running this code?

```
function add(x = 1, y = 2) {
  return x + y;
}
add();
 null
 3
```

undefined

```
> function add(x=1, y=2){return x+y}
 undefined
 > add()
 3
Explanation: function that called without parameter will use its param default value, thus x
will always be default to 1 and y will always be default to 2.
Q99. Why might you use a React.ref?
 to refer to another JS file
 to bind the function
 to call a function
 to directly access the DOM node
Reference
Q100. What pattern is being used in this code block?
const { tree, lake } = nature;
                                                                                 ſĊ
 function defaults
 array destructuring
 PRPL pattern
 destructuring assignment
Reference
Q101. How would you correct this code block to make sure that the sent property is set
to the Boolean value false?
ReactDom.render(
                                                                                 ſĠ
  <Message sent=false />,
 document.getElementById("root")
);
 \mathbf{A}
<Message sent={false} />,
                                                                                 ſĠ
 B
ReactDom.render(<Message sent="false" />, document.getElementById('root'));
                                                                                 ſĠ
 <Message sent="false" />,
                                                                                 ιÖ
 ReactDom.render(<Message sent="false" />, document.getElementById('root'));
```

ſŪ

## Passing Props to a Component

Q102. This code is part of an app that collects Pokemon. The useState hook below is a
piece of state holding onto the names of the Pokemon collected so far. How would you
access the collected Pokemon in state?
<pre>const PokeDex = (props) =&gt; {</pre>
const [pokenex, setPokenex] = usestate([]);
///
<pre>};</pre>
props.pokeDex
this.props.pokeDex
setPokeDex()
Explanation: useState always return an array with two values, the state itself (on first value)
and the set function that lets you update the state (on second value) useState Reference
Q103. What would you pass to the onClick prop that will allow you to pass the initName
prop into the greet handler?
<pre>const Greeting = ({ initName }) =&gt; {   const greet = (name) =&gt; console.log("Hello, " + name + "!");</pre>
return <button onclick="{" }="">Greeting Button </button>
}
hug
this.hug(initName)
(name) => this.hug(name)
(name) => this.nag(name)
Explanation: Apparently the question misstyped greet as hug. Putting this aside, we can
still learn from this question.
<ul> <li>In a function, the global object is the default binding for this. In a browser window</li> </ul>
the global object is [object Window]. This is a functional Component,
so this from this.hug actually refers to browser window. Since it is a functional
component, we can directly refer to hug without using this.
<ul> <li>To pass a handler to onClick, we should always pass a function rather than execute a</li> </ul>
function. So we need to use callback here. initName is available in Greeting's function
scope, so we can directly supply as an argument to hug().
Q104. What is the name of the compiler used to transform JSX into JavaScript?
☑ Babel
☐ JSX Editor
☐ Browser Buddy
□ ReactDOM
JSX Transform with Babel
Q105. Which hook is used to prevent a function from being recreated on every
component render?
useCallback
useMemo
useRef

useTransition
React Hooks useCallback docuementation
Q106. Why might you use the useRef hook?
■ To bind the function
■ To call a function
☑ To directly access a DOM
■ To refer to another JS file
Reference
Q107. Which of the following is required to use React?
✓ JavaScript
React Router
Redux
Prop-Types
Reference
Q108. What is the correct way to get a value from context?
const value = useContext(MyContext.Consumer)
const value = useContext(MyContext.Provider)
<pre>const value = useContext(MyContext)</pre>
<pre>const value = useContext({value: "intiial value"})</pre>
Reference
Q109. Why is ref used?
to bind function
to call function
✓ to directly access DOM node
■ to refer to another JS file
Reference
Q110. Choose the method which should be overridden to stop the component from
updating?
componentDidMount
componentDidUpdate
willComponentUpdate
✓ shouldComponentUpdate
Reference
Q111. What is the functionality of a "webpack" command?
<ul> <li>Runs react local development server</li> </ul>
Transfers all JS files to down into one file
A module builder
All of the above
Q112. Choose the method which is not a part of ReactDOM?
ReactDOM.createPortal()
ReactDOM.hydrate()
ReactDOM.destroy()

<ul> <li>ReactDOM.findDOMnode()</li> <li>Q113. In react, the key should be?</li> <li>Unique among his siblings</li> <li>Unique in DOM</li> <li>Does not requires to be unique</li> <li>all of the above</li> <li>Reference</li> <li>Q114. Which company developed ReactJS?</li> <li>Google</li> <li>Meta (ex Facebook)</li> <li>Apple</li> </ul>
Twitter
Reference
Q115. Choose the library which is most often associated with react?
☐ Chai ☐ Sinon
✓ Jest
Mocha
Reference
Q116. What of the following is used in React.js to increase performance?
Original DOM
☑ Virtual DOM
■ Both of the above
■ None of the above
Reference
Q117. Among The following options, choose the one which helps react for keeping their
data uni-directional?
□ DOM
✓ flux
□ JSX
Props
Reference
Q118. Which choice is a correct refactor of the Greeting class component into a function
component?
class Greeting extends React.Component {
render() {
<pre>return <h1>Hello {this.props.name}!<h1>; }</h1></h1></pre>
}
<pre>const Greeting = (name) =&gt; <h1>{name}</h1></pre>
function Greeting(name){return <h1>{name}</h1> ;}
<pre>const Greeting = props =&gt; { <h1>{props.name}</h1> }</pre>
<pre>const Greeting = ({ name }) =&gt; <h1>Hello {name}</h1>;</pre>
J (

```
Q119. Why is the waitlist not updating correctly?
const Waitlist = () => {
                                                                                 ιÖ
  const [name, setName] = useState('');
  const [waitlist, setWaitlist] = useState([]);
  const onSubmit = (e) => {
    e.preventDefault();
   waitlist.push(name);
 };
  return (
    <div>
      <form onSubmit={onSubmit}>
        <label>
         Name: <input type="text" value={name} onChange={(e) => setName(e.target
        </label>
        <button type="submit">Add to waitlist</button>
      </form>
      <01>
        {waitlist.map((name) => (
          {name}
        ))}
      </div>
  );
};
    waitlist is being mutated directly. Use the setWaitlist function instead to update
    the waitlist state.
 The form is reloading the page each time Add to waitlist is clicked.
 ■ The Add to waitlist button is missing a click handler.
 ■ There are likely repeated names inside of the waitlist array.
Reference
Q120. What is the pattern that is used in the Context. Consumer below?
<Context.Consumer> {(isLoggedIn)=>{isLoggedIn? "Online": "Offline"}}
</Context.Consumer>
 higher-order component
 wish component
 Render Props
 setup Componet
Q121. In React.js which one of the following is used to create a class for Inheritance?
 Create
 Extends
 Inherits
 Delete
```

Reference
Q122. What is the purpose of render() in React.js?
■ To replace the existing markup
■ To update the existing markup
Both of the above
■ None of the above
Reference
Q123. What is the use of super(props) in React.js?
To call the constructor of the parent class
To initialize this.props in the constructor
☑ Both of the above
None of the above
Reference
Q124. What is Redux in React.js?
A state container for JavaScript apps
A tool for building UI components
Both of the above
None of the above
<u>Reference</u>
Q125. What is the purpose of the virtual DOM in React.js, and how does it improve
performance in web applications??
The virtual DOM is used to store user authentication data securely.
■ The virtual DOM is a backup copy of the actual DOM, created for debugging purposes.
The virtual DOM is a lightweight representation of the actual DOM, and it helps
improve performance by minimizing direct manipulation of the real DOM.
The virtual DOM is a database used to store component states.
<u>Reference</u>
Q126. You run the following code and get this error message: "invalid hook call." what is
wrong with the code?
import React from 'react';
const [poked, setPoked] = React.useState(false);
const [pokeu, setrokeu] = heact.usestate(raise),
function PokeButton() {
return <button =="" onclick="{()"> setPoked(true)}&gt;{poked ? 'You have left a poke.'</button>
}
<b>→</b>
The useState call needs to be called inside of the PokeButton component.
The react package is likely not installed correctly.
useState is not imported correctly. Import useState directly instead of importing react.
PokeButton is a pure function and therefore cannot have any local state.
Q127. A colleague comes to you for help on a react component. They say that the poke
button renders correctly, however when the button is clicked, this error is shown:

"setPoked is not defined". What is wrong with their code?	
function PokeButton() {	ф
<pre>const { poked, setPoked } = useState(false);</pre>	٦
<pre>return <button =="" onclick="{()"> setPoked(true)}&gt;{poked ? 'You have left a poke.'</button></pre>	
}	
anClick prop should be anclick	
<ul> <li>onClick prop should be onclick.</li> <li>The click handler passed to the onClick prop is inlined. Move this handler into a</li> </ul>	
variable outside of JSX.	
☑ They use object destructructing instead of array destructructing. Wrap the poked a	and
setPoked values in an array.	
poked and setPoked are not destructured in the correct order.	
Q128. This component is loaded dynamically. What should you replace XXXX with to	)
complete the code?	
<pre>const OtherComponent = React.lazy(() =&gt; import('./OtherComponent.js'));</pre>	<del>ن</del>
	5
<pre>function MyComponent() {</pre>	
return (	
<xxxx fallback="{&lt;spinner"></xxxx> }>	
<pre>&lt;0therComponent /&gt; </pre>	
); \	
Component	
Component	
Fragment	
✓ Suspense	
Lazy	
Q129. Elements in lists in React should have that are	
keys ; unique	
keys ; indexes	
style ; inline	
values ; not-null <u>Source</u> : React <u>Docs</u>	
Q130. You want to memorize a callback function so you ensure that React does not	
recreate the function at each render. Which hook would you use to accomplish this?	
useRef	
useMemo	
memo	
✓ useCallback	
Source: CodeDamn	
O131. You want to perform a network operation as the result of a change to a	

Q131. You want to perform a network operation as the result of a change to a component's state named userInput. what would you replace XXXX with?

useEffect(callNetworkFunc, XXXX);	<del>С</del>
✓ [userInput]	
userInput	
undefined	
Q132. When is the Hello component displayed?	
<pre><div>{isLoggedIn ? <hello></hello> : null}</div></pre>	<b>-</b> □
	ب
when isLoggedIn is false	
when isLoggedIn is true	
when isLoggedIn is false and the Hello function is invoked	
never	
Q133. When do you use useLayoutEffect?	
to optimize for all devices	
to complete the update	
to change the layout of the screen	
when you need the browser to paint before the effect runs	
Q134. What is the difference between state and props in React?	
<ul> <li>Props are set by the parent component, state is set by the child component</li> </ul>	
Props are passed to a component, state is managed within the component	
Props can be updated, state cannot be updated	
There is no difference - props and state are the same	
Q135. Which language can you not use with React?	
Swift.	
□ JSX.	
☐ Javascipt.	
TypeScript.	
Q136. Which answer best describes a function component?	
A function component is the same as a class component.	
A function component accepts a single props object and returns a React element.	
A function component is the only way to create a component.	
A function component is required to create a React component.	
Q137. Which library does the fetch() function come from?	
FetchJS	
ReactDOM	
No library. fetch() is supported by most browsers.	
React	
Q138. In React, what is the purpose of the key prop when renderin	ıg a
list of components	
■ The key prop is used to provide a unique identifier for the component.	

The key prop is used to define the color of the component.
☐ The key prop is required to render a list of components.
The key prop is used by React to optimize updates and identify which items have
changed or been added/removed in the list.
Q139. What is the primary function of React Router?
React Router is used for fetching data from APIs.
React Router is used to create animations in React applications.
React Router is used for managing state in React components.
React Router is used for adding navigation and routing to React applications, allowing
users to navigate between different views or pages.
Q140. When should you use Redux in a React application?
Redux is always required in React applications.
Redux should be used when you need to fetch data from APIs.
Redux is used for creating user interfaces but not for state management.
Redux is typically used when you have complex state management needs, such as
sharing state between multiple components or handling deeply nested state.
Q141. What is the use of React hooks?
To optimize React apps for mobile devices
To add visual effects to React components.
To allow using state and lifecycle methods in function components
To integrate with external UI libraries like Bootstrap
Q142. How can you pass data through a React component tree without having to pass
props down manually at every level?
By using React context
By using redux
By using react router
By using react lifecycle methods