

Final Exam

- Due Dec 18 at 6:50pm
- Points 100
- Questions 50
- Available Dec 16 at 4:55pm - Dec 18 at 6:50pm
- Time Limit 90 Minutes

Instructions

Welcome to the Final Exam for CPSC 349.

There are 50 questions. The time limit is 90 minutes. You can only attempt this exam once.

Once you submit the exam, you can leave.

All the best! You got this!

Note: Final exam is conducted "inclass" Kindly come 10mins before 5 pm

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	24 minutes	98 out of 100

❗ Correct answers will be available on Dec 20 at 12am.

Score for this quiz: 98 out of 100

Submitted Dec 18 at 5:26pm

This attempt took 24 minutes.



Question 1

2 / 2 pts

What is the purpose of the `useEffect` hook in React?

- ☐ To pass data down from parent to child components.
- ☐ To optimize the performance of a React component.
- ☒ To perform side effects in functional components, like fetching data or subscriptions.
- ☐ To define the initial state of a component.



Question 2

2 / 2 pts

What does the `useState` hook do in React?

- ☒ It manages state within a functional component.
- ☐ It allows you to define styles for your components.
- ☐ It helps you test React components.
- ☐ It fetches data from an API.



Question 3

2 / 2 pts

Client-side rendering (CSR) is commonly used in single-page applications (SPAs) where content is dynamically loaded.

- ☒ True
- ☐ False



Question 4

2 / 2 pts

Server-side rendering (SSR) is better (in terms of efficiency) for applications where the content changes frequently.

- ☐ True
- ☒ False



Question 5

2 / 2 pts

ReactJs is not cross-platform.

- ☐ True
- ☒ False



Question 6

2 / 2 pts

How does the Virtual DOM improve application performance?

- ☐ By replacing the real DOM entirely
- ☒ By avoiding unnecessary re-renders of the entire DOM
- ☐ By running React applications in a browser-independent environment
- ☐ By automatically optimizing JavaScript code



Question 7

2 / 2 pts

ReactJs is declarative but not component-based.

- ☐ True
- ☒ False



Question 8

2 / 2 pts

Parent components can pass data (props) down to their child components and vice-versa.

- ☐ True

☒ False



Question 9

2 / 2 pts

How can you pass data from a parent component to a child component?

☐ Using Context API

☐ Using State

☐ Using Redux

☒ Using Props



Question 10

2 / 2 pts

What is JSX in React?

☐ A React state management tool

☐ A type of JSON

☒ A syntax extension for JavaScript to write HTML-like code

☐ A templating engine



Question 11

2 / 2 pts

What are the basic building blocks of React applications?

☒ Reusable React components.

☐ Pre-built UI libraries like Bootstrap.

☐ JavaScript functions and variables.

☐ HTML elements and CSS styles.



Question 12

2 / 2 pts

What is the benefit of using React over traditional JavaScript for building user interfaces?

- ☐ React eliminates the need for writing HTML and CSS.
- ☒ React allows for building reusable and maintainable components.
- ☐ React is always faster than traditional JavaScript for any web application.
- ☐ React is a completely new programming language.



Question 13

2 / 2 pts

What is a callback function in JavaScript?

- ☐ A function that can only be declared inside another function.
- ☒ A function that is passed as an argument to another function.
- ☐ A function that is called automatically when a certain event occurs.
- ☐ A special function used for manipulating arrays.



Question 14

2 / 2 pts

Javascript is a just-in-time compiled programming language.

- ☒ True
- ☐ False



Question 15

2 / 2 pts

What is the purpose of the `this` keyword in JavaScript?

- ☐ To create a new object instance.
- ☐ To refer to the global object (window in browsers).
- ☒ To refer to the object that the function is currently a method of.
- ☐ To reference a specific variable within the current scope.



Question 16

2 / 2 pts

Which of the following methods correctly removes the last element from an array?

- ☐ `array.delete(array.length - 1);`
- ☐ There is no built-in method to remove the last element.
- ☒ `array.pop()`
- ☐ `array.shift()`



Question 17

2 / 2 pts

What is the output of the following javascript code?

```
function outer() {  
    console.log(myVar);  
}  
outer();  
var myVar = 10;
```

- ☐ 10
- ☒ undefined
- ☐ 20

☐ none of the above



Question 18

2 / 2 pts

Which of the following methods is commonly used for asynchronous communication in JavaScript?

- ☐ alert()
- ☐ console.log()
- ☒ setTimeout()
- ☐ var



Incorrect Question 19

0 / 2 pts

What is the output of the following javascript code?

```
let myStr = "California_State_University_Fullerton";  
console.log(myStr.slice(5, -5));  
console.log(myStr.substring(5, -5));
```

- ☐ "ornia_State_University_Full", ""
- ☒ "rnia_State_University_Full", "Calif"
- ☐ "ornia_State_University_Full", "Calif"
- ☐ "Calif", "ornia_State_University_Full"



Question 20

2 / 2 pts

What is the output of the following code?

```
function foo() {  
  return {  
    bar: "hello"  
  };  
}  
  
console.log(foo().bar);
```

- ☒ hello
- ☐ { bar: "hello" }
- ☐ Error
- ☐ undefined



Question 21

2 / 2 pts

What are some common ways to handle the result of an asynchronous operation in JavaScript?

- ☐ Using async/await
- ☒ All of the listed options
- ☐ Using callbacks to define what happens when the operation finishes.
- ☐ Using promises to manage the asynchronous operation and its eventual result.



Question 22

2 / 2 pts

What is the benefit of using promises over callbacks for asynchronous operations? Select all correct options.

- ☒ Promises allow for chaining of asynchronous operations.
- ☒ Promises improve code readability compared to callback hell.
- ☐ Promises are always faster than callbacks.



Question 23

2 / 2 pts

What is event bubbling in JavaScript?

- ☐ A technique to call multiple event handlers on the same element
- ☒ A mechanism where an event triggers at the most specific element and propagates to its ancestors
- ☐ A process where events only affect their parent elements, skipping the target element
- ☐ A method to stop event propagation in the DOM



Question 24

2 / 2 pts

Which of the following statements is true about `textContent` and `innerText` in JavaScript?

- ☐ `textContent` retrieves only the visible text of an element, while `innerText` retrieves all text, including hidden elements
- ☐ `innerText` is faster than `textContent` because it doesn't consider CSS styles
- ☒ `textContent` retrieves all the text content of an element, including hidden text, while `innerText` only retrieves visible text
- ☐ Both `textContent` and `innerText` can set HTML content directly into an element



Question 25

2 / 2 pts

What does HTML stand for?

- ☐ HyperText Machine Language
- ☐ HyperText and Links Markup Language
- ☒ HyperText Markup Language
- ☐ HyperTool Multi Language



Question 26

2 / 2 pts

Which tag is used to create a hyperlink?

- ☐ <hyperlink>
- ☒ <a>
- ☐ <href>
- ☐ <link>



Question 27

2 / 2 pts

Which tag is used for the largest heading?

- ☐ <heading>
- ☐ <header>
- ☐ <h6>
- ☒ <h1>



Question 28

2 / 2 pts

Which attribute is used to provide an alternative text for an image?

- ☐ src
- ☐ href
- ☒ alt
- ☐ title



Question 29

2 / 2 pts

What is the correct HTML element for inserting a line break?

- ☒ `
`
- ☐ `<break>`
- ☐ `<hr>`
- ☐ `<lb>`



Question 30

2 / 2 pts

What is the purpose of the `<meta>` tag?

- ☒ To specify document metadata
- ☐ To create a navigation menu
- ☐ To embed an image
- ☐ To create a hyperlink



Question 31

2 / 2 pts

Which attribute is used to uniquely identify an element?

- ☐ name
- ☐ key
- ☐ class
- ☒ id



Question 32

2 / 2 pts

How do you define a table header?

- ☐ <tr>
- ☐ <thead>
- ☐ <header>
- ☒ <th>



Question 33

2 / 2 pts

Which of the following is not a valid HTML5 element?

- ☐ <article>
- ☐ <footer>
- ☒ <highlight>
- ☐ <nav>



Question 34

2 / 2 pts

What does the `action` attribute in an HTML form do?

- ☐ Specifies the HTTP method to be used
- ☐ Adds JavaScript for form submission
- ☐ Validates the form
- ☒ Specifies where to send the form data



Question 35

2 / 2 pts

What is the default display property of a `<div>` element?

- ☐ inline
- ☒ block
- ☐ flex
- ☐ none



Question 36

2 / 2 pts

Which property is used to change the background color?

- ☐ color
- ☐ bgcolor
- ☐ background
- ☒ background-color



Question 37

2 / 2 pts

What is the default position value in CSS?

- ☐ fixed
- ☐ relative
- ☒ static
- ☐ absolute



Question 38

2 / 2 pts

How can you apply a style to multiple classes?

- ☐ None of the above
- ☐ Use '&' between class names
- ☒ Separate class names with a comma
- ☐ Use multiple class selectors



Question 39

2 / 2 pts

Which CSS property is used to create space around elements?

- ☐ spacing
- ☒ margin
- ☐ border-spacing
- ☐ padding



Question 40

2 / 2 pts

What is the difference between `inline` and `block` elements in CSS?

- ☐ Inline elements occupy a new line; block elements do not
- ☐ Inline elements can have padding and margin; block elements cannot
- ☒ Block elements occupy the full width by default; inline elements do not
- ☐ Block elements cannot be styled with CSS



Question 41

2 / 2 pts

How can you make a text input field required in HTML?

- ☒ `<input type="text" required>`
- ☐ `<input type="text" mandatory>`
- ☐ `<input type="text" validation="required">`
- ☐ `<input type="text" validate="required">`



Question 42

2 / 2 pts

Which of the following is true about `let` and `var`?

- ☐ `let` is function-scoped, while `var` is block-scoped.
- ☒ `let` is block-scoped, while `var` is function-scoped.
- ☐ Both are function-scoped.
- ☐ Both are block-scoped.



Question 43

2 / 2 pts

What is the correct HTML for inserting a background image?

- ☒ `<body style="background-image:url(background.gif)">`
- ☐ `<background src="background.gif">`
- ☐ `<body bg="background.gif">`
- ☐ `<background img="background.gif">`



Question 44

2 / 2 pts

What is the main purpose of media query?

- ☐ To set the background color of a webpage
- ☐ To optimize the performance of JavaScript code execution on different browsers
- ☒ To apply different styles to a webpage based on the device's characteristics, such as screen size or resolution
- ☐ To dynamically load external resources like images or scripts



Question 45

2 / 2 pts

How do you include an external CSS file in an HTML document?

- ☐ <include href="style.css">
- ☐ <css href="style.css">
- ☐ <style src="style.css">
- ☒ <link rel="stylesheet" href="style.css">



Question 46

2 / 2 pts

`console.log (0.1 + 0.2 === 0.3)`

- ☐ undefined
- ☐ true
- ☐ TypeError
- ☒ false



Question 47

2 / 2 pts

```
console.log ( typeof null );
```

- ☒ object
- ☐ null
- ☐ number
- ☐ undefined



Question 48

2 / 2 pts

```
const arr = [1, 2, 3];
```

```
arr[10] = 99;
```

```
console.log(arr.length);
```

- ☒ 11
- ☐ undefined
- ☐ 3
- ☐ 10



Question 49

2 / 2 pts

```
console.log( '5' - 3 );
```

```
console.log( '5' + 3);
```

- ☒ 2 and 53
- ☐ NaN and 8

- ☐ 2 and 8
- ☐ NaN and 53



Question 50

2 / 2 pts

```
for (var i = 0; i < 3; i++) {  
    setTimeout(function log() {  
        console.log(i);  
    }, 1000);  
}
```

- ☒ 3 3 3
- ☐ 0 0 0
- ☐ undefined undefined undefined
- ☐ 0 1 2

Quiz Score: 98 out of 100