

W07 Final Exam

- Due Oct 15 at 11:59pm
- Points 35
- Questions 35
- Available until Oct 16 at 11:59pm
- Time Limit 90 Minutes

Instructions

The exam assesses your mastery of concepts in web frontend technologies covered in the course learning outcomes and assignments.

[Prepare for the final exam](https://byui-cse.github.io/wdd231-ww-course/week07)  (<https://byui-cse.github.io/wdd231-ww-course/week07>)

- The exam is timed.
- You must take the exam on your own without any assistance from another person.
- The exam is open note.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	65 minutes	16 out of 35

🚫 Correct answers are hidden.

Score for this quiz: 16 out of 35

Submitted Oct 15 at 1:26am

This attempt took 65 minutes.



Question 1

1 / 1 pts

Which of the following HTML script attributes delays the execution of a referenced script until after the document has been parsed?

- ☒ defer
- ☐ required
- ☐ async
- ☐ await

Incorrect



Question 2

0 / 1 pts

To set the value of a preselected, valid element assigned to a variable identified as "**msg**", you can use which of the following statements?

Check all that apply. Hint: There is more than one way listed that is correct.

- ☒ msg.text = "You Win!";
- ☐ msg.HTMLvalue = "You Win!";
- ☒ msg.textValue = "You Win!";
- ☐ msg.textContent = "You Win!";
- ☐ msg.innerHTML = "You Win!";

Incorrect



Question 3

0 / 1 pts

In the browser's DevTools, the "user agent stylesheet" in the Elements Styles tab refers to:

- ☐ A aggregate compilation of CSS styles provided by the user's operating system.
- ☐ Default styles provided by the browser to render HTML elements consistently across different platforms.
- ☒ Custom styles applied by the user to modify the appearance of web pages.
- ☐ Stylesheets provided by the web server to customize the user's browsing experience.



Question 4

1 / 1 pts

Given the following JavaScript statement,

```
const msg = document.querySelector('span');
```

what element does this statement reference and assign to the msg variable?

- ☐ A random one from the NodeList.
- ☒ The first span element found on the document.
- ☐ The last span element found on the document.
- ☐ An element with a class attribute of 'span'.



Question 5

1 / 1 pts

The following code snippet is an example of which type of function?

```
menubutton.addEventListener('click', () => {  
  menuitems.classList.toggle('show');  
});
```

- ☒ arrow function
- ☐ function expression

- ☐ class function
- ☐ function declaration

Incorrect



Question 6

0 / 1 pts

Which of the following correctly sets the text node of a preselected div element assigned to a variable identified as "reveal" as shown in this statement?

- ☐ reveal.innerHTML = `🎉 Congratulations! You are having a \${babygender}!`;
- ☒ reveal.text = `🎉 Congratulations! You are having a \${babygender}!`;
- ☐ reveal.HTMLvalue = `🎉 Congratulations! You are having a \${babygender}!`;
- ☐ reveal.textContent = `🎉 Congratulations! You are having a \${babygender}!`;

Incorrect



Question 7

0 / 1 pts

The following code does not work as intended because when a valid chapter is entered into the HTML input field with an id of "favchap" the message on the screen is wrong saying that the favorite chapter is something like **[object HTMLInputElement]**. And when they do not enter anything into the input field, the message is still outputting the

"Thank you. your favorite chapter is [object HTMLInputElement]".

What advice would you give them?

Check all the apply.

```
const message = document.querySelector('#message');
const input = document.querySelector('#favchap');
if (input !== "") {
  message.innerHTML = `Thank you. Your favorite chapter is ${input}.`;
} else {
  message.innerHTML = `Please enter a chapter.`;
}
```

- ☒ Template literal strings (``...) cannot be used with the innerHTML property of an element.
- ☐ Use single quotes and not double quotes in the if block condition.
- ☒ The HTML input element must have an id of "input" to match the variable identifier used.
- ☐ Reference the value property of the #favchap input element, not just the element.



Question 8

1 / 1 pts

Which of the following is the correct way to insert a comment in CSS that has **more than one line**?

- ☐ *** This comment has more
than one line ***

<!-- This comment has more

☐ than one line -->

// This comment has more

☐ than one line //

/* This comment has more

☒ than one line */



Question 9

1 / 1 pts

Which of the following will be assigned to the variable **target** given the following code snippet.

```
let scores = [56, 78, 95, 77, 65, 86];  
let target = scores.indexOf(78);
```

☐ 0

☐ 6

☐ 78

☐ -1

☒ 1

Incorrect



Question 10

0 / 1 pts

Which of the following statements correctly uses a template literal (string interpolation) instead of the string concatenation as shown?

```
const ward = "<strong>Unit Name</strong>: " + ward;
```

☐ let ward = "Unit Name: {ward}";

☐ const ward = `Unit Name + {ward}`;

☐ const ward = `Unit Name: \${ward}`;

☒ let ward = `\${Unit Name}: {ward}`;



Question 11

1 / 1 pts

Which of the following array method statements correctly creates a new array named '**outreach**' that contains values from the **scores** array that are less than 70?

```
const scores = [99, 88, 93, 70, 84, 69];
```

☐ const outreach= scores .map(function() { total < 70 });

☒ const outreach = scores .filter(total => total < 70);

☐ let outreach= scores .reduce(function() { total < 70 });

☐ `const outreach= scores .map(total => total < 70);`

Incorrect



Question 12

0 / 1 pts

Given the following statements:

```
const section = document.createElement('section');
const h3 = document.createElement('h3');
h3.textContent = 'Relief Society';
```

Which of the following statements correctly adds the **h3** heading with its content to the newly created **section** variable?

- ☐ `section.h3.append;`
- ☒ `section.innerHTML = h3;`
- ☐ `section.appendChild(h3);`
- ☐ `h3 += section;`

Incorrect



Question 13

0 / 1 pts

Given this function expression that computes the wind chill factor,

```
const computeWindChill = function(windSpeed, temperature) {
  // Fahrenheit Only
  return 35.74 + (0.6215 * temperature) - (35.75 * Math.pow(windSpeed, 0.16)) + (0.4275 * temperature * M
ath.pow(windSpeed, 0.16));
};
```

Which of the following correctly **calls** the function using arguments of **speed** and **temp**?

- ☐ `let windChill = windChill(windSpeed, temperature)`
- ☐ `computeWindChill(speed, temp)`
- ☐ `function computeWindChill()`
- ☒ `function computeWindChill(speed, temp)`
- ☐ `computeWindChill(windSpeed, temperature)`

Incorrect



Question 14

0 / 1 pts

Given the following array definition and subsequent code,

```
const countries = ["Canada", "Chili", "Colombia", "Croatia", "Costa Rica"];
const countriesLong = countries.____((country) => country.length > 7);
```

Which of the following keywords when used for the blank _____ correctly filters the **countries** array to a new array named **countriesLong** where the country names are more than 7 characters?

- ☐ filter
- ☒ reduce
- ☐ find
- ☐ map

Incorrect



Question 15

0 / 1 pts

Which of the following options correctly describes the purpose of the **forEach** loop?

- ☐ It is used to sort the elements of an array in ascending or descending order.
- ☐ It is used to filter elements in an array based on a specified condition.
- ☐ It is used to iterate over the elements of an array and execute a provided function for each element of the array..
- ☒ It is used to execute a block of code repeatedly for a specific number of times.



Question 16

1 / 1 pts

Which JavaScript method is used to attach an event handler to an HTML element?

- ☐ handleEvent()
- ☐ querySelector()
- ☐ appendButtonChild()
- ☒ addEventListener()
- ☐ handle()



Question 17

1 / 1 pts

Given that the parent items is a CSS grid, **how many columns** will this <aside> span?

```
aside {  
  border: 1px solid #eee;  
  padding: 2rem;  
  text-align: center;  
  grid-column: 1 / 3;  
}
```

- ☐ 1
- ☐ 5
- ☒ 2
- ☐ 4
- ☐ 3



Question 18

1 / 1 pts

A member of your team's **media query** for larger views is **not working** and provides you a copy of the **media-query-large.css** file for review.

Which of the following feedback statements should you provide to them?

Check all that apply.

```
@media screen and (min-width: 30em) {  
  h1 {  
    font-size: 2.5rem;  
  }  
}  
main {  
  grid-template-columns: 1fr 1fr 1fr;  
}
```

- ☒ The media query ends too soon. It does not contain all the intended CSS rules.
- ☐ The problem is not found in the CSS file.
- ☐ You must include the screen media type in the @media query.
- ☐ You cannot use em units in media queries.



Question 19

1 / 1 pts

What is the purpose of lazy loading images on a web page?

- ☒ To defer the loading of non-essential images until after the initial page load
- ☐ To reduce the file size of images by compressing them
- ☐ To asynchronously load images from a content delivery network (CDN)
- ☐ To preload images in anticipation of user interaction



Question 20

1 / 1 pts


Which of the following CSS selectors would correctly place a check box in front of all the elements with a class of "check" in front of its existing content?

- ☐ div#check::content{ before: "✅"; }
- ☒ .check::before { content: "✅"; }
- ☐ .check::marker { front: "✅"; }
- ☐ #check:first { content: "✅"; }



Question 21

1 / 1 pts

What does the  syntax in the CSS rule selector do?

Example:

```
a:hover {  
  text-decoration: overline;  
}
```

}

- ☐ Selects a hidden element
- ☒ Selects a pseudo-class
- ☐ Selects a DOM event
- ☐ Selects a pseudo-element

Incorrect



Question 22

0 / 1 pts

Given the following HTML markup snippet:

```
<ul>
  <li>Unordered item</li>
  <li>Unordered item
    <ol>
      <li>Item 1</li>
      <li>Item 2</li>
    </ol>
  </li>
</ul>
```

Which of the following CSS selectors selects the outer, unordered list items and not the embedded ordered list items?

- ☒ ul li
- ☐ ul > li
- ☐ ul + li
- ☐ ul ~ li

Incorrect



Question 23

0 / 1 pts

Which of the following code **expressions** produces the last element of any **array**?

- ☐ array[array.pop()]
- ☒ array[array.lastIndex]
- ☐ array[[]lastIndex()]
- ☐ array[array.length - 1]

Incorrect



Question 24

0 / 1 pts

Which of the following would change the background color of every other row in an HTML table?

Check all that apply.

- ☒ tr:even-rows {background-color: skyblue}
- ☒ tr:nth-child(even) {background-color: skyblue}

☐ tr:nth-child(:not(first)) {background-color: skyblue}

☒ tr:odd-rows {background-color: skyblue}

☒ tr:nth-child(odd) {background-color: skyblue}

Incorrect



Question 25

0 / 1 pts

What does the term "first contentful paint" (FCP) measure in relation to page performance?

- ☒ The time it takes for the first image to start to render on the page.
- ☐ The time it takes for images to load on the page
- ☐ The time taken to render the first bit of content from the DOM (Document Object Model) onto the screen.
- ☐ The time is taken to render the headings and form elements (if any) on the page.



Question 26

1 / 1 pts

Which of the following factors is **NOT** typically considered when optimizing page performance?

- ☐ Number of JavaScript libraries used
- ☐ Image compression / optimization
- ☒ Date and Time Formats
- ☐ Page load time

Incorrect



Question 27

0 / 1 pts

In JavaScript, what is the primary purpose of Promises?

- ☒ To handle errors and exceptions in asynchronous code.
- ☐ To handle asynchronous operations and manage their results over time.
- ☐ To simplify the syntax of for loops and array iterations.
- ☐ To provide a way to manage and manipulate dates and times.

Incorrect



Question 28

0 / 1 pts

How many times will "pass" be printed to the console given the following code snippet

```
let pagination = 10;
let i = 1;
while ( i >= pagination ) {
  console.log(`pass ${i}`);
  i++;
}
```

☒ 9

- ☐ 10
- ☐ infinite
- ☐ 11
- ☐ 0



Question 29

1 / 1 pts

A student posts a question about why the following snippet of HTML markup is not working as intended. The markup is supposed to display a paragraph with a working external link to an article titled "The Teachings of Jesus Christ" on the Church's website.

```
<p>Please review the following article on <a href="https://www.churchofjesuschrist.org/study/general-conference/2023/04/51oaks">The Teachings of Jesus Christ. This article will help you focus your baseline faith in the restoration.</p>
```

What would be your advice on how to fix this HTML markup?

- ☒ The closing anchor tag `` is missing.
- ☐ You cannot embed an anchor tag `<a>` within a paragraph `<p>` element.
- ☐ The hyperlink address is too long
- ☐ The hyperlink attribute is "src" and not "href".

Incorrect



Question 30

0 / 1 pts

Rewrite this entire line of code which uses a concatenated string expression to use a template literal (string) instead.

```
const ward = "<strong>Home Ward</strong>: " + homeWard;
```

Note that there is a space after the colon (:)

Your answer should start with

const ward =

```
const ward = `<strong>Home Ward</strong> ++ homeWard`;
```



Question 31

1 / 1 pts

Given the following does not contain line breaks.

Make it a JavaScript code comment.

Make this text a comment in my JS code

//Make this text a comment in my JS code

Incorrect



Question 32

0 / 1 pts

If you have several child items and you want them to display in multiple rows and columns depending on the browser screen width you could display the parent tag as a flex item.

```
div.parent {display: flex;}
```

What additional CSS declaration would you need to add to the above rule to get the child items to display on multiple rows?

Check all that apply.

- ☐ flex-template-columns: auto;
- ☒ wrap: flex-wrap;
- ☐ justify-content: multiple;
- ☒ flex-wrap: wrap;



Question 33

1 / 1 pts

Which of the following is a **self-closing** or **void** HTML tag?

- ☐ a
- ☐ aside
- ☒ img
- ☐ body
- ☐ ul
- ☐ div

Incorrect



Question 34

0 / 1 pts

Suppose a variable named **discount** has been initialized and a value has been assigned.

Which of the following condition expressions correctly checks to see if **discount** is less than **12** and greater than or equal to **3**.

- ☐ discount < 12 || discount >= 3
- ☐ This condition cannot be written in one line expression.

- ☐ discount <= 12 || discount >= 3
- ☐ discount < 12 && discount >= 3
- ☒ discount <= 12 && discount >= 3

Incorrect



Question 35

0 / 1 pts

One of your peers posts a question about their CSS animation and provides the following code asking why the animation will not work.

```
.circular-animation {  
  animation: circularMotion 5s linear infinite;  
}
```

What advice would you give the student?

- ☒ Suggest using the transition property instead of animation for simpler motion effects.
- ☐ Recommend checking if the @keyframes rule with the name circularMotion has been defined properly.
- ☐ Advise adjusting the animation duration to a shorter time period for faster motion.
- ☐ Suggest adding vendor prefixes to the animation property to ensure compatibility with older browsers.

Quiz Score: 16 out of 35

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