

W07 Final Exam

- Due Jul 24 at 11:59pm
- Points 35
- Questions 35
- Available until Jul 25 at 11:59pm
- Time Limit 75 Minutes

Instructions

The exam assesses your mastery of fundamental concepts and practical applications of HTML, CSS, and JavaScript, as outlined in the course learning outcomes.

[Prepare for the final exam](https://byui-cse.github.io/wdd131-ww-course/week07)  (<https://byui-cse.github.io/wdd131-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	20 minutes	28 out of 35

❗ Correct answers are hidden.

Score for this quiz: 28 out of 35

Submitted Jul 21 at 9:39am

This attempt took 20 minutes.



Question 1

1 / 1 pts

Which of the following HTML snippet of code correctly references an external JavaScript file name **rate.js** that is located in a subfolder named **scripts** in HTML?

- ☒ `<script src="scripts/rate.js"></script>`
- ☐ `<link href="scripts/rate.js" type="text/javascript">`
- ☐ `<src js="scripts/rate.js"></src>`
- ☐ `<link href="./scripts/rate.js" ></link>`



Question 2

1 / 1 pts

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

Check all that apply. There may be more than one correct answer.

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



Question 3

1 / 1 pts

To assign a variable identified as **'msg'** an HTML document element with a class named **'message'** where this element is the first element in the document with that class designation, which of the following would you use?

Select all the apply.

- ☐ const msg = document.querySelector('message');
- ☐ const msg = document.querySelector('#message');
- ☒ const msg = document.querySelector('.message');
- ☐ const msg = document.getElementById('#message');
- ☐ const msg = document.getElementsByClassName('message');



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?

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



IncorrectQuestion 5

0 / 1 pts

In JavaScript, to assign a variable identified as 'msg' a document element with an id named 'message', which of the following would you use?

Select all the apply.

- ☒ `const msg = document.querySelector('.message');`
- ☐ `const msg = document.querySelector('message');`
- ☐ `const msg = document.getElementById('message');`
- ☒ `const msg = document.querySelector('#message');`



Question 6

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 declaration
- ☐ function expression
- ☐ class function



Question 7

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



Question 8

1 / 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.`;
}
```

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



Question 9

1 / 1 pts

Which of the following is the correct way to insert a comment in JavaScript 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 10

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
- ☒ 1
- ☐ -1
- ☐ 6
- ☐ 78



Question 11

1 / 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;
```

- ☒ `const ward = `Unit Name: ${ward}`;`
- ☐ `const ward = `Unit Name + {ward}`;`
- ☐ `let ward = "Unit Name: {ward}";`
- ☐ `let ward = `${Unit Name}: {ward}`;`



Question 12

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 .filter(total => total < 70);`
- ☐ `const outreach= scores .map(function() { total < 70 });`
- ☐ `const outreach= scores .map(total => total < 70);`
- ☐ `let outreach= scores .reduce(function() { total < 70 });`



Question 13

1 / 1 pts

Given the following object definition:

```
let product = { 'id': '455689A', 'price': 23.99, 'cost': 15, 'shelfDate': '10/01/2024' }
```

Which of the following statements will correctly access the value associated with the **cost** key for this **product** variable and store it in a variable named **'itemcost'**.

- ☐ let itemcost = product.cost();
- ☒ let itemcost = product['cost'];
- ☐ let itemcost = product.cost(455689A);
- ☐ let itemcost = cost.product(455689A);



Question 14

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



IncorrectQuestion 15

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 * Math.
    pow(windSpeed, 0.16));
};
```

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

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

☒ computeWindChill(windSpeed, temperature)



Question 16

1 / 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
- ☐ find
- ☐ reduce
- ☐ map



Question 17

1 / 1 pts

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

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



Question 18

1 / 1 pts

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

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



Question 19

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;
}
```

- ☒ 2
- ☐ 4
- ☐ 1
- ☐ 5
- ☐ 3



IncorrectQuestion 20

0 / 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.
- ☐ You must include the screen media type in the @media query.
- ☒ The problem is not found in the CSS file.
- ☐ You cannot use em units in media queries.



Question 21

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?

- ☐ .check::marker { front: "✔"; }
- ☐ #check:first { content: "✔"; }

- ☒ .check::before { content: "✔"; }
- ☐ div#check::content{ before: "✔"; }



Question 22

1 / 1 pts

Finish this statement.

The _____ pseudo-class is useful for declaring global CSS variables and represents the <html> element and is identical to the selector html, except that its specificity is higher.

- ☐ specific
- ☐ global
- ☒ root
- ☐ html



Question 23

1 / 1 pts

Select the correct answer to complete the following statement.

To apply CSS Flex, you can define a flex container using the _____ property on the parent element.

- ☐ flex: 100%;
- ☐ cssflex: 100%;
- ☒ display: flex;
- ☐ flex: 1 1 auto;



Question 24

1 / 1 pts

What does the `:` syntax in the CSS rule selector do?

Example:

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

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



IncorrectQuestion 25

0 / 1 pts

Which of the following best describes the **space around the content** from the CSS box model?

- ☒ margin
- ☐ border
- ☐ paragraph
- ☐ space-between
- ☐ padding



Question 26

1 / 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



IncorrectQuestion 27

0 / 1 pts

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

- ☒ array.length - 1
- ☐ array.lastIndex
- ☐ array.lastIndex()
- ☐ array.length - 1



Question 28

1 / 1 pts

A student has this code for their responsive image. What feedback would you give them?

Check all the apply.

```
<picture>
  <source srcset="images/hero-small.webp" media="(min-width: 1200px)">
  <source srcset="images/hero-medium.webp" media="(min-width: 800px)">
  <img srcset="images/hero-large.webp" alt="Hero Photo" width="500" height="250">
</picture>
```

☐ Your source references are missing alt attributes.



The images are listed backwards. You should start with the hero-small.webp file as the default when using min-width.

☐ Good job, the code looks good.

☐ You are not allowed to use min-width with the <source> element's media attribute.



Question 29

1 / 1 pts

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

Check all that apply.

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

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

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

☐ tr:even-rows {background-color: skyblue}

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



IncorrectQuestion 30

0 / 1 pts

Which of the following is an accurate example of writing a comment in CSS?

☒ <!-- a comment -->

☐ <comment>a comment</comment>

☐ // a comment

☐ /* a comment */



Question 31

1 / 1 pts

CSS is a stylesheet language used to describe the presentation of a document written in HTML or XML. CSS is an acronym for _____.



Question 32

1 / 1 pts

Which of the following is the correct syntax to write a CSS **shorthand declaration** to apply a top and bottom margin of 1 rem and left and right margin of 2 rem?

- ☐ margin-top: 1rem; margin-right: 2rem; margin-bottom: 1rem; margin-left: 2rem;
- ☐ margins: 2rem;
- ☒ margin: 1rem 2rem;
- ☐ margins: 1rem 2rem 1rem;
- ☐ margin-all: 1rem + 2rem;



Question 33

1 / 1 pts

Choose the correct answer to make the following statement true.

In a HTML form, each field must have a _____ attribute to be submitted. If this attribute is omitted, the data of that input field will not be sent when the form is successfully submitted.

- ☐ class
- ☐ id
- ☒ name
- ☐ required



Question 34

1 / 1 pts

Which of the following input types would be the best choice for displaying choices to a user if they are only allowed to select **one** choice?

- ☐ type="range"
- ☐ type="select"
- ☐ type="checkbox"

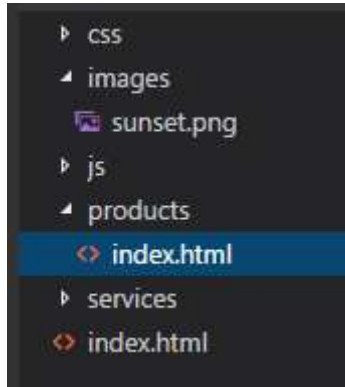
- ☒ type="radio"
- ☐ type="choice"



IncorrectQuestion 35

0 / 1 pts

Given the following simple file structure within a folder:



Which of the following is the correct src reference to the ***sunset.png*** image file from the ***index.html*** file (shown as highlighted) located in the products sub-folder?

- ☐ ../images/sunset.png
- ☒ images/sunset.png
- ☐ products/images/sunset.png
- ☐ .images/sunset.png

Quiz Score: 28 out of 35

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