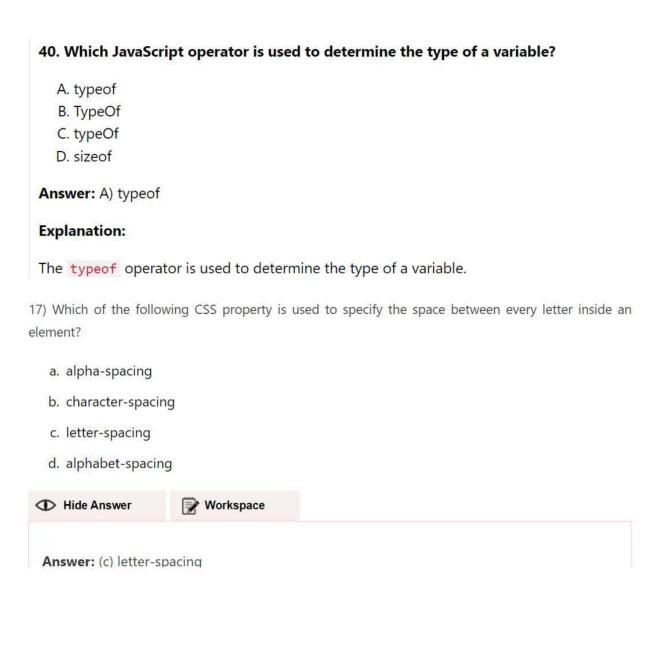


## Soen287 review finals - study material

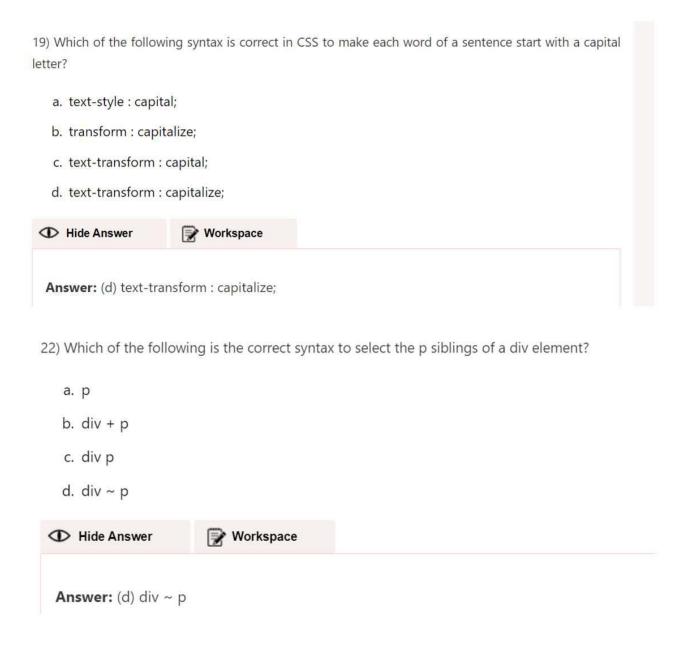
Web Programming (Concordia University)

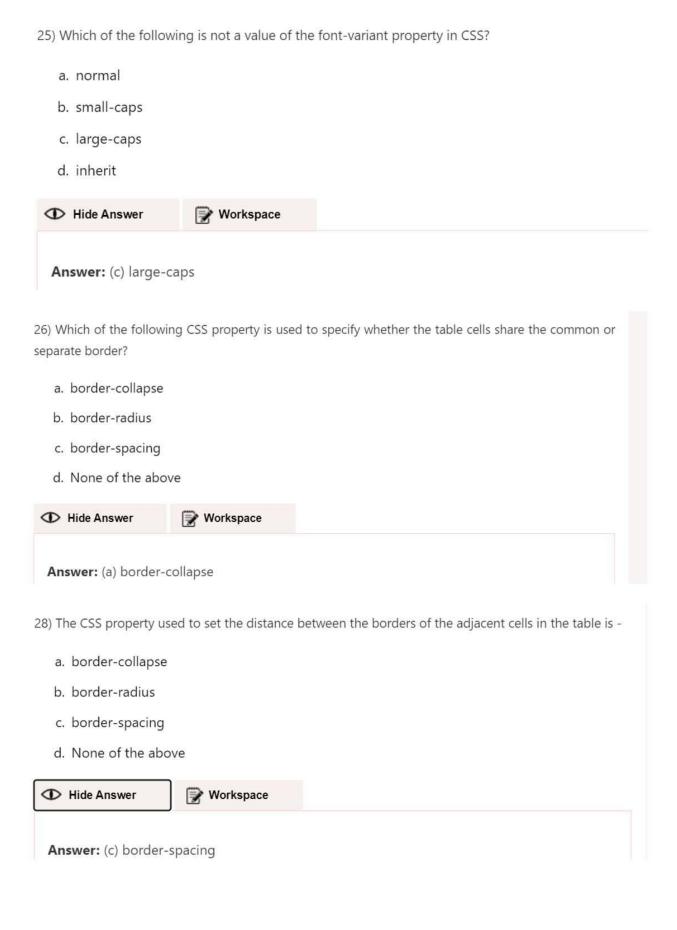


Scan to open on Studocu



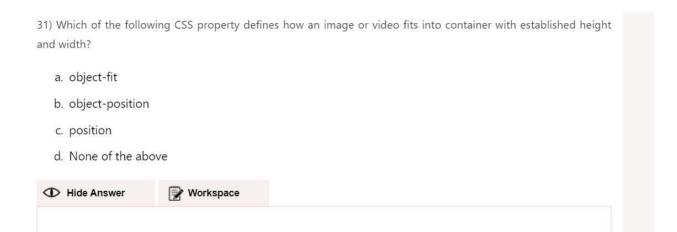
16) Which of the following is used to specify the subscript of text using CSS? a. vertical-align: sub b. vertical-align: super c. vertical-align: subscript d. None of the above Hide Answer Workspace Answer: (a) vertical-align: sub 18) The CSS property used to specify whether the text is written in the horizontal or vertical direction? a. writing-mode b. text-indent c. word-break d. None of the above Tide Answer Workspace Answer: (a) writing-mode





| selectors?   |   |   |  |  |
|--|---|---|--|--|
| a. :! selector   |   |   |  |  |
| b. :not selector   |   |   |  |  |
| c. :empty select   | or  |   |  |  |
| d. None of the a   | above   |   |  |  |
| Hide Answer  | - Worksman  |   |  |  |
| Hide Answer  | <b>₩</b> Workspace  |   |  |  |
| Answer: (b) :not   | selector  |   |  |  |
| Allower (b) mot  | Selector  |   |  |  |
| 30) Which of the following                               | ng is not a type of combinator                                | ?   |  |  |
| a. >   |   |   |  |  |
| b. ~   |   |   |  |  |
| c. +   |   |   |  |  |
| d. *   |   |   |  |  |
| ① Hide Answer  | <b></b> Workspace   |   |  |  |
|  |   |   |  |  |
| Answer: (d) *  |   |   |  |  |
|  | ombinators clarifies the relation that are listed as follows: | tionship between two selectors. There are four types of |  |  |
|  |   |   |  |  |
| General sibling selector (~)                             |   |   |  |  |
| Adjacent siblin     Child selectors                      |   |   |  |  |
| <ul><li>Child selector (</li><li>Descendant se</li></ul> |   |   |  |  |
| Descendant se  | iector (space)  |   |  |  |
|  |   |   |  |  |
|  |   |   |  |  |

29) Which of the following selector in CSS is used to select the elements that do not match the



- 35) Which if the following CSS function allows us to perform calculations?
  - a. calc() function

Answer: (a) object-fit

- b. calculator() function
- c. calculate() function
- d. cal() function



**Explanation:** The calc() is an inbuilt CSS function that allows us to perform the calculations. It can be used to calculate length, percentage, time, number, integer frequency, or angle. It uses the four simple arithmetic operators add (+), multiply (\*), subtract (-), and divide (/).

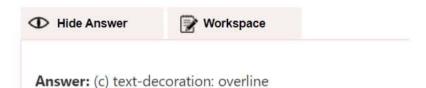
50) The correct syntax to give a line over text is -

a. text-decoration: line-through

b. text-decoration: none

c. text-decoration: overline

d. text-decoration: underline



#### 12. From the given options which is/are the valid way to represent a color?

- A. A valid color name like "blue"
- B. HEX code like "#0000ff"
- C. RGB Value like "rgb(0,0,255)
- D. All of the above

Answer: D) All of the above

#### **Explanation:**

All of the given options are valid to define/represent the color name.

#### 13. Which property is used to define the font of the element's text?

- A. font
- B. font-family
- C. font-style
- D. All of the above

Answer: B) font-family

#### 15. What are the valid values of font-style property?

- A. italic, bold, bolder
- B. normal, bold, italic
- C. underline, bold, italic
- D. inherit, italic, normal, oblique

Answer: D) inherit, italic, normal, oblique

#### **Explanation:**

The following are the valid values of the font-style property,

- inherit
- italic
- normal
- oblique

#### 16. Why font-weight property is used?

- A. Sets how thick or thin characters in text should be displayed.
- B. Sets the size of the font
- C. Both A. and B.
- D. None of the above

Answer: A) Sets how thick or thin characters in text should be displayed

#### 17. What is/are the correct value(s) of font-weight property?

- A. bold, italic, underline
- B. normal, bold, italic
- C. normal, bold, bolder, lighter, initial, and inherit
- D. None of the above

c

#### 19. What is the correct syntax of border property in CSS?

A. border: border-width border-style border-color

B. border: border-color border-width border-style

C. border: border-style border-width border-color

D. All of the above

Answer: A) border: border-width border-style border-color

## 23. If you want to use a green dotted border around an image, which CSS property is used for that?

- A. border-style
- B. border-color
- C. border-decoration
- D. Both A. and B.

Answer: D) Both A. and B.

#### 25. What are the valid values of text-align property?

- A. left, middle, right
- B. left, center, right
- C. left, center, right, justify
- D. left, middle, right, justify

Answer: C) left, center, right, justify

- 11. The tag which allows you to nest other HTML tags within the description
- a) <CAPTION>
- b) <TD>
- c) <TR>
- d) None of the above

#### 26. What is the use of "text-align:justify" in CSS?

- A. Stretches the lines so that each line has equal width
- B. Stretches the lines so that each line can be arranged in left alignment
- C. Stretches the lines so that each line can be arranged in right alignment
- D. None of the above

Answer: A) Stretches the lines so that each line has equal width

#### 29. Which CSS property is used to specify the space between lines?

- A. line-space
- B. line-spacing
- C. line-padding
- D. line-height

Answer: D) line-height

#### 35. What are the valid values of "text-decoration" property?

- A. overline, line-through, underline, and none
- B. overline, strike, line-through, underline, and none
- C. double-line, overline, line-through, underline, and none
- D. None of these

Answer: A) overline, line-through, underline, and none

#### 37. Which CSS property sets the vertical alignment of an element?

- A. vertical-align
- B. vertical-text-align
- C. text-valign
- D. vertical-align-text

Answer: A) vertical-align

#### 38. What are the valid values of vertical-align property?

- A. baseline, text-top, text-bottom, subscript, and superscript
- B. baseline, top, bottom, sub, and super
- C. baseline, text-top, text-bottom, sub, and super
- D. base, text-top, text-bottom, sub, and super

Answer: C) baseline, text-top, text-bottom, sub, and super

#### 41. Which is the correct CSS statement is used to remove the markers/bullets?

A. list-style: none;

B. list-style-type: 0;

C. list-style-type: blank;

D. list-style-type: none;

Answer: D) list-style-type: none;

#### **JavaScript**

- Originally developed by Branden Eich (Netscape), as LiveScript
- Became a joint venture of Netscape and Sun in 1995, renamed JavaScript
- Standardized by the European Computer Manufacturers Association as ECMA-262 (also ISO 16262)
  - Thus JavaScript also called ECMAScript (ES)
- The Original JavaScript ES1 ES2 ES3 (1997-1999)
- The First Main Revision ES5 (2009)

```
<!DOCTYPE html>
<html>
<hddy>

<h1>JavaScript Strings</h1>
<h2>The match() Method</h2>

<pp>
<ppid="demo">
<script>
let text = "The rain in SPAIN stays mainly in the plain";
const myArr = text.match(/ain/g);
document.getElementById("demo").innerHTML = myArr.length + " " + myArr;
</script>
</body>
</body>
</html>
```

#### **JavaScript Strings**

#### The match() Method

Perform a global search for "ain":

3 ain,ain,ain

| Case        | value | ıry      |
|-------------|-------|----------|
| 2 < 12      | true  | Try it » |
| 2 < "12"    | true  | Try it » |
| 2 < "John"  | false | Try it » |
| 2 > "John"  | false | Try it » |
| 2 == "John" | false | Try it » |
| "2" < "12"  | false | Try it » |
| "2" > "12"  | true  | Try it » |
| "2" == "12" | false | Try it » |

#### 200 Series

200 OK: The request was successful, and the server has returned the requested data.

201 Created: The request was successful, and a new resource has been created as a result.

#### 400 Series

400 Bad Request: The server cannot process the request due to a client error

**401 Unauthorized:** The client must authenticate itself to get the requested response

403 Forbidden: The client does not have permission to access the requested resource.

404 Not Found: The requested resource could not be found on the server.

#### 500 Series

500 Internal Server Error: The server encountered a situation it doesn't know how to handle (generic error).

502 Bad Gateway: received an invalid response

**503 Service Unavailable:** The server is currently unable to handle the request due to maintenance or overload.

504 Gateway Timeout

step-by-step dulue. Detting started with Express.js

- Express Middleware for Form Data:
  - express.urlencoded(): Middleware for parsing form data with 'Content-Type: application/x-www-form-urlencoded'.
  - express.json(): Middleware for parsing JSON data with 'Content-Type: application/json'.

```
// Middleware to parse form data
app.use(express.urlencoded({ extended: false }));
app.use(express.json());
```

```
const fruits = ["Apple", "Banana", "Orange"];
for (x of fruits) {
  console.log(x);
}
```

#### 40. Which JavaScript operator is used to determine the type of a variable?

- A. typeof
- B. TypeOf
- C. typeOf
- D. sizeof

Answer: A) typeof

#### **Explanation:**

The typeof operator is used to determine the type of a variable.

## Copy (script) let str1 = new String("IncludeHelp!"); let str2 = new String("IncludeHelp!"); document.getElementById("test").innerHTML = (str1==str2); (/script) A. true B. false C. True D. False Answer: B) false Explanation: In the above code, str1 and str2 are the objects. And. In the JavaScript, comparison of two objects returns false.

#### 

# Copy (script) let cars = ['Honda', 'Hyundai']; cars.push('Mahindra'); document.write(typeof cars + " " + cars); (/script) A. array Honda,Hyundai,Mahindra B. string Honda,Hyundai,Mahindra C. object Honda,Hyundai,Mahindra D. object "Honda", "Hyundai", "Mahindra" Answer: C) object "Honda", "Hyundai", "Mahindra" Explanation: The push() method pushes an element at the end of the array. And, typeof returns the type of the object. Here, cars is an array.

#### 83. What will be the output of the following JavaScript code?

- A. 10, 10
- B. 10, undefined
- C. 10, [object Undefined]
- D. None of the above

Answer: C) 10, [object Undefined]

#### **Explanation:**

In the above JavaScript code, the statement <code>toString(x)</code> will not convert number to string because <code>toString()</code> is not a global method, it is a Number method and the correct way is to call this function is <code>x.toString()</code>.

/^Lee/ VS. /[^Lee]/

```
<form id = "form1">
     <input type = "button" id = "myButton"
          onclick = "alert('you clicked my button');" />
</form>
          or onclick = "myButtonHandler();"
```

Method2: assign handler to property

### Example on var's global and function scope:

```
var scope = "global scope";
function checkscope() {
   var scope = "local scope";
   function nested() {
     var scope = "nested scope";
     alert("1-" + scope); //prints, what?
   }
   nested();
   scope = "local scope";
   for (var i =0; i < 10; i++) {
     var scope = "nested scope";
   }
   alert("2-" + scope);
}
checkscope();
alert("3-"+scope);</pre>
```

→SHOW scope1.html and display

```
<script>
myFunction();
document.getElementById("demo").innerHTML = a * a;

function myFunction() {
   a = 4;
}
</script>
</body>
</html>
```

The child selector (>) selects all elements that are the children of a specified element.

```
div > p {
  background-color: yellow;
}
```

```
<div>
  Paragraph 1 in the div.
  Paragraph 2 in the div.
  <section>
    <!-- not Child but Descendant -->
    Paragraph 3 in the div (inside a section element).
  </section>
  Paragraph 4 in the div.
</div>
```

## Adjacent Sibling Selector (+)

select an element that is directly after another specific element.

```
div + p {
  background-color: yellow;
}
```

```
<div>
  Paragraph 1 in the div.
  Paragraph 2 in the div.
</div>

Paragraph 3. After a div.
Paragraph 4. After a div.
```

```
div ~ p {
  background-color: yellow;
}
```

## CSS background - Shorthand property

To shorten the code, it is also possible to specify all the background properties in is called a shorthand property.

Instead of writing:

```
body {
  background-color: #ffffff;
  background-image: url("img_tree.png");
  background-repeat: no-repeat;
  background-position: right top;
}
```

```
const sum = numbers.reduce((acc, curr) => acc
 + parseFloat(curr), 0);
 return sum;
function getDigits(str) {
 const regex = /\d/g;
 const digits = str.match(regex);
 const result = digits ? digits.join('') : '';
 return result;
function reverseString(str) {
 const reversed = str.split('').reverse().join
 return reversed;
function getCurrentDate() {
 const options = {
   weekday: 'long',
   year: 'numeric',
   month: 'short',
  day: 'numeric'
 const date = new Date();
 const dateString = date.toLocaleDateString
 ('en-US', options);
 return dateString;
```

#### my varascript r unctions

#### **Function A**

The sum of [2, 4, 6, 8, 10] is: 30

#### **Function B**

The max number of [10, 30, 3, 85, 45] is: 85

#### **Function C**

The sum of [4, 5, "3.0 birds", true, "birds2"] is: 12

#### **Function D**

The digits in "12mans34sf5" are: 12345

#### **Function E**

The reverse of "See you later" is: !retal uoy eeS

#### **Function F**

The current date is: Monday, Aug 14, 2023

var text = "testing: 1, 2, 3";// Sample text var pattern = /d + /g// Matches all instances of one or more digitsWhich one of the following statement is most suitable to check if the pattern matches with the sting "text". a. test(text) b. equals(pattern) c. test(pattern) d. text==pattern Hide Answer vararr=[4,3,2,1]; var rev=arr.reverse(); document.writeln(rev); a. 1, 2, 3,4 b. 4, 3, 2, 1 c. 3 d. 1 Hide Answer ₩orkspace

87) Which one of the following options is the correct output for the given code of javascript?

```
var values=[4,5,6,7]

varans=values.slice(1);
document.writeln(ans);

a. Error
b. 5, 6, 7
c. 4, 5, 6,
d. 4, 5, 6, 7

Hide Answer

Workspace
```

34) what will happen it we execute the following piece of code:

```
<script>

var arr=[4,3,1];

for(i=0;i<4;i++){
  document.writeln(arr[i]);
}
</script>
```

- a. The output will be 4 3 1
- b. The output will be 4 3 undefined 1
- c. It will result in an error
- d. It does not run at all