Quiz Submissions - CS571 Summer 2021: Web Technologies Exam 2^X

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Attempt 1

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Submission View

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Cookies and Privacy Questions

Question 1 1.2 / 2 points

[2 points] Cookies include a number of components, some required, some optional. Select only the required components:





X HttpOnly flag

🛶 🧹 🕡 Name / value pair

Expiration date

Question 2 2 / 2 points

[2 points] Select all true properties of cookies. Select all that apply.

Cookies can track your IP address



- ✓ Http Only cookies are invisible to JavaScript
- Persistent cookies may not be deleted
- Cookies can store any information you provide to a site
- Secure cookies are erased when the user closes the browser

Question 3 1.2 / 2 points

[2 points] Select all ways to "opt out" of cookies. Select all that apply.

- 🗙 🕡 Install browser extensions
- → ✓ Use cookie management tool in browser
- Download opt-out cookie
- → ✓ ✓ Select "do not track" in browser
 - ★ Change account Preferences on registration sites

Web Security Questions

Question 4 1.6 / 2 points

[2 points] What are the most recommended ways to generate strong passwords? Select all that apply.

- → ✓ Use a very large number of characters
- Use diceware generated passwords

REST Questions

Question 7 1.6 / 2 points

[2 points] For REST Web Services, select the statements that are true. Select all that apply.



- REST services do not offer security
- REST services are platform independent
- REST services can use HTTPS
 - ✓ REST services are a W3C recommendation

High-Performance Websites Questions

Question 8 1.6 / 2 points

[2 points] Which of the following are ways to reduce the number of HTTP requests? Select all that apply.

- Combine Style Sheets
 - ✓ Combine cookies
- 📥 χ 🦳 Combine scripts
 - ✓ Split images

Question 9 1.2 / 2 points

[2 points] Which of the following are rules to improve Web site performance? Select all that apply.

 \Rightarrow \checkmark Reduce number of DOM elements



Question 12	2 / 2 points
[2 points] Which of the following attributes are not supported in HTML5? Select all that apply.	
colspan	
✓ J bgcolor	
√ align	
✓ controls	
✓ border	
Ajax Questions	
Question 13	2 / 2 points
[2 points] The fetch() API can receive cross-site cookies.	
True	
✓ ● False	
Question 14	0 / 2 points
[2 points] Creating an instance of the XMLHttpRequest object is the same in all latest browser.	
→ True	
× • False	

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Question 15		2 / 2 points
[2 points] CORS and server proxy are god	od ways to avoid cross-domain browser restrictions.	
✓ ● True		
False		
Question 16		2 / 2 points
[2 points] The web browser displays a vis	sual progress indicator while the XMLHttpRequest is being processed.	
True		
✓ ● False		
Question 17		2 / 2 points
[2 points] Consider the following code sn	ippet:	
<pre>j = eval("(" + text + ")");</pre>		
Select all answers that are TRUE for such	ı code.	
✓ It is part of JSON.parse()		
✓ It is very unsafe		
Question 18		2 / 2 points
[2 points] Select all valid XMLHttpReques	t() Object properties. Select all that apply.	
✓ onReadyState		
✓ readyStateChange		
✓ status		

Question 19 2 / 2 points

[2 points] Of the URLs below, select only the ones that have the same origin as http://www.ajaxbook.com?

- http://www.ajaxbook.com:443
- https://www.ajaxbook.com
- http://carsearch.ajaxbook.com
- ✓ http://www.ajaxbook.com/ajax

Question 20 2 / 2 points

[2 points] Consider the following code from one of the Ajax example shown in class:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN">
<html><head><title>My Third Ajax Script</title>
<script src="script03.js" type="text/javascript" language="Javascript"></script></head>
<body><div id="pictureBar"> </div></body></html>
```

And this JavaScript:

```
window.onload = initAll;
var xhr = false;
function initAll() {    same as previously except it calls getPix }
function getPix() { xhr.open("GET", "flickrfeed.xml", true);
xhr.onreadystatechange = xxxxx1; xhr.send(null); setTimeout("getPix()",5 * 1000); }
function showPictures() {
    var tempDiv = document.createElement("div");
    var tempDiv2 = document.createElement("div");
    if (xhr.readyState == 4) {
        if (xhr.status == 200) {
        tempDiv.xxxxx2 = xhr.responseText;
        var allLinks = tempDiv.getElementsByTagName("a");
        for (var i=1; i<allLinks.length; i+=2) {</pre>
            tempDiv2.appendChild(allLinks[i].cloneNode(true)); }
        allLinks = tempDiv2.getElementsByTagName("a");
        var randomImg = Math.floor(Math.random() * allLinks.length);
```

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document.getElementById("pictureBar").innerHTML = allLinks[randomImg].innerHTML;

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JQuery Questions

Question 23 2 / 2 points

[2 points] Consider the following CSS, jQuery and HTML. Will "Text 2" be changed by the jQuery code, underlined and with green dotted border?

```
<!doctype html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <title>attributeContainsPrefix demo</title>
 <style>
 a {
  display: inline-block;
 </style>
 <script src="https://code.jquery.com/jquery-3.5.0.js"></script>
</head>
<body>
<a href="example.html" hreflang="en">Text 1</a>
<a href="example.html" hreflang="en-UK">Text 2</a>
<a href="example.html" hreflang="english">Text 3</a>
<script>
$( "a[hreflang|='en']" ).css( "border", "3px dotted green" );
</script>
</body>
</html>
```

✓ ● True

False

Question 24 2 / 2 points

[2 points] Which of the following selectors are part of the Basic Filter selectors category? Select all that apply.

- :multiple selector
- :header selector
- ✓ :first

Question 25 2 / 2 points

[2 points] Which of the following objects are abstracted by jQuery? Select all that apply.





✓ JSON

Question 26 2 / 2 points

[2 points] Consider the following example of use of the ":last-child" Selector:

```
<div>
  <span>John,</span>
  <span>Karl,</span>
  <span>Brandon,</span>
  <span>Sam</span>
</div>
<div>
  <span>Glen,</span>
  <span>Tane,</span>
 <span>Ralph,</span>
  <span>David</span>
</div>
<script>
$( "div span:last-child" )
  .css({ color:"red", fontSize:"80%" })
  .hover(function() {
    $( this ).addClass( "solast" );
  }, function() {
    $( this ).removeClass( "solast" );
  });
</script>
</body>
</html>
```

Which names will be colored red?

- ★ Sam and David
- **⇒** John and Glen

Question 27 2 / 2 points

[2 points] What is the JavaScript object added by jQuery? Select all that apply.





Question 28 2 / 2 points

[2 points] Which of the following selectors are part of the Basic selectors category? Select all that apply.







Question 29 2 / 2 points

[2 points] What is the jQuery code that corresponds to the following DOM code?

var kids = n.childnodes;

- kids = \$("body").childnodes();

Responsive Website Design (RWD) Questions

Question 30 1 / 2 points

[2 points] Consider the following media queries:

<link rel="stylesheet" media="only screen and (min-width:320px) and (max-width: 760px)"
href="css1.css">

<link rel="stylesheet" media="only screen and (min-width:761px) and (max-width: 1100px)"
href="css2.css">

What different device sizes they fail to support? Select all that apply.

→ X Devices with large screens



Question 31	2 / 2 points
[4 points] Select which concepts are the basis of Responsive Website Design. Select all that apply.	
content reduction	
✓ flexible images	

Question 32 2 / 2 points

[2 points] Select valid reasons why hosting a .mobi website is not recommended. Select all that apply.

- Requires duplication of content
- ✓ It hinders search engines

CSS3 media queries

fluid grids

Question 33 0.5 / 2 points

[2 points] What are properties of the Responsive Web Design (RWD) approach? Select all that apply.

- Adapts to viewing environment
- No panning if possible, unless required by the application
 - Easy reading with a minimum of scrolling

Question 34 2 / 2 points

[2 points] Consider the following code:

h1 { margin-left: 14.575%; width: 70.85%; }

Is this an example of what kind of dimensions?

- Pixel-based
- Rule-based
- **✓** Relative-based

Frameworks Questions

Question 35 2 / 2 points

[2 points] Which of the following are TRUE of TypeScript? Select all that apply.



✓ Supports MVC

✓ Supports Optionals

Question 36 1 / 2 points

[2 points] Select which of the following is true of React. Select all that apply.



💢 🧹 Is a framework like Angular

Question 37 0.667 / 2 points

[2 points] Select which of the following are TRUE of Angular (version 2 though 9). Select all that apply.

- ▼ Uses services to increase usability and flexibility
- 🗙 🗸 Architecture based on services
- Can be used to build Single Page Applications, by rendering plain HTML at the server side

Question 38 1.5 / 2 points

[2 points] Which of the following are TRUE of Node.js? Select all that apply.

- ✓ Includes built-in CORS support
- ★ ✓ Core modules include networking and a fetch() compatible API
- Includes both synchronous and asynchronous file I/O support
- Maintains several connections per server to make HTTP requests

Question 39 1 / 2 points

[2 points] Select which of the following are TRUE of TypeScript. Select all that apply.

- 🙀 🧳 A Semantic superset of JavaScript
- Can seamlessly consume JavaScript

Serverless Questions

Question 40 2 / 2 points

Adapts to rates of incoming requests	
Functions are unit of deployment	
Can be triggered by HTTP only	
Question 41	2 / 2 points
[2 points] Select which of the following are TRUE of AWS Lambda? Select all that apply.	
Complex resource model	
Easy to build scalable back-end services	
Not suitable for real-time data processing	
Question 42	2 / 2 points
[2 points] Which of the following are properties of a container like Docker? Select all that apply.	
Not portable	
Container images can be shared	
Containers on same host share single Linus kernel	
Question 43	2 / 2 points
[2 points] Which of the following are TRUE of AWS Lambda? Select all that apply.	
Functions can be triggered by events	
Cost of idle time is small	
Functions and classes are unit of deployment	

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[2 points] Select which of the following is true of AWS Lambda? Select all that apply.

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1St Half Course Questions

Question 44 2 / 2 points

[2 Points] Which of the following are valid values of the Accept-Encoding header? Select all that apply.





Question 45 2 / 2 points

[2 Points] Select all true properties of JSON Objects. Select all that apply.

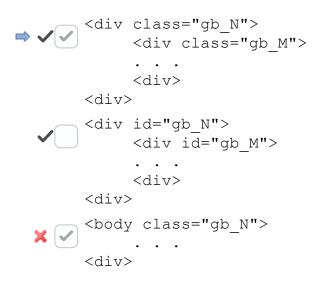
- ✓ Keys are strings or numeric
- ✓ Values are JSON values
- ✓ Objects are unordered containers of <u>key/value</u> pairs
- ✓ Can be used to represent: struct, record, hashtable, object

Question 46 1.333 / 2 points

[2 Points] Below are lines extracted from the CSS style sheet of google.com.

```
.gb_N .gb_M {
    background-image: none !important;
    position: relative
}
```

Which of the following examples will trigger the CSS?



Question 47 2 / 2 points

[2 Points] Select characters that to appear in HTML need to be represented with numeric or entity references. Select all that apply.

- √ & (ampersand)
- ✓✓ " (double quote)
- ✓✓ ' (single quote)

Question 48 2 / 2 points

[2 Points] Consider the following program:

alert("123".match($\wedge d/g$))

What is displayed by the alert?



Question 49 2 / 2 points

[2 Points] Consider the following Python code:

```
>>> a = set('abracadabra')
>>> b = set('alacazam')
>>> a & b
```

What gets printed?

{'a', 'b', 'c', 'd', 'l', 'r', 'm', 'z'}

(\{ 'a', 'b' \}



Question 50 2 / 2 points

[2 Points] Consider the following example from w3schools.com.

```
<!DOCTYPE html>
<html>
<body>
Click the button.
<button onclick="myFunction()">Try it</button>
```

```
<script>
function myFunction() {
var btn = document.createElement("BUTTON");
btn.innerHTML = "CLICK ME";
document.body.appendChild(btn);
}
</script>
</body>
</html>
```

What happens when one clicks the "Try it" button?

- Creates a BUTTON element with text "CLICK ME" above the text "Click the button".
- ✓ Creates a BUTTON element with text "CLICK ME" next to the "Try It" button
 - Creates a BUTTON element with text "CLICK ME" above the "Try It" button
 - Creates a BUTTON element with text "CLICK ME" below (i.e., under) the "Try It" button

Attempt Score:85.7 / 100 - 85.7 %

Overall Grade (highest attempt):85.7 / 100 - 85.7 %

Done