

CS 3010 Practice Exam

Name:

Matching

Match the following html elements to their descriptions

- | | |
|---|---------|
| 1 | a. body |
| 2 | b. head |
| 3 | c. a |
| 4 | d. img |
| 5 | e. br |

1. Contains links to both internal and external web pages C
2. Can be used to create a new line with out creating a new section E
3. Contains the content that renders on the page A
4. Contains titles, styles, and scripts B
5. Used for putting images on a page D

True or False

1. A **div** is a block level element T
2. A **p** is is a block level element T
3. An **h1** element is smaller than an **h2** element F
4. A **ul** element is used to create an unordered list T
5. Both **ul** and **ol** have **li** elements as children F
6. Examples of common html attributes are **class**, **type**, and **id** T
7. Padding adds space around an html element whereas margin adds space within an html element F
8. The **href** attribute is used within an **a** element T
9. The **src** attribute is used within an **img** element T
10. An **em** is an inline element T

Multiple Choice

1. Given the code:

```
1 <div id='myID'>
2   I am a div!
3 </div>
4 <div>
5   I am also a div!
6 </div>
```

Which of the following css selectors would change the background color of the first div to black (circle one):

```
1 .myID {
2   background: 'black';
3 }
```

```
1 div {
2   background: 'black';
3 }
```

```
1 #myID {
2   background: 'black';
3 }
```

```
1 .myID {
2   background: 'blue';
3 }
```

2. How many columns are in the bootstrap grid system?

4 Columns

6 Columns

8 Columns

12 Columns

3. Given the code:

```
1  <!doctype html>
2  <html>
3    <head>
4      <script>
5        const sayHi = function() {
6          alert('HI!')
7        }
8      </script>
9    </head>
10   <body>
11
12
13
14   </body>
15 </html>
```

Which of the following buttons will alert the user with a message "HI!"?

```
1  <button onPress='sayHi'> Press me </button>
```

```
1  <button onClick='sayHi'> Press me </button>
```

```
1  <button handleClick='sayHi'> Press me </button>
```

```
1  <button onPush='sayBye'> Press me </button>
```

4. Given the following code:

```
1  <!doctype html>
2  <html>
3    <head>
4      <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.cs
s" integrity="sha384-
HSMxcRTRxnN+Bdg0JdbxYKrThecOKuH5zCYotlSAcp1+c8xmyTe9GYg1l9a69psu"
crossorigin="anonymous">
5    </head>
6    <body>
7
8      <div> ONE    </div>
9      <div> TWO    </div>
10     <div> THREE  </div>
11
12   </body>
13 </html>
```

What classes would you use to ensure that each div took up the entire page on an extra small screen, but all rendered in the same row on any other screen?

```
1 | col col-xs-12
```

```
1 | col col-xs-8 col-md-4
```

```
1 | col col-xs-6 col-lg-12
```

```
1 | col col-xs-12 col-sm-4
```

Short Answer

1. What does CSS stand for?

Cascading Style Sheet

2. What does HTML stand for?

Hypertext Markup Language

3. Given the code, what is the output?

```
1  for( var i = 0; i < 6; i++ ){  
2      console.log('i = ' + i)  
3  }
```

i = 0

i = 1

i = 2

i = 3

i = 4

i = 5

4. Given the code, what would you put into the style section of the html to wrap a border around the div?

```
1  <!doctype html>  
2  <html>  
3      <head>  
4          <style>  
5  
6
```

```
7      div {
8          border: 1px black solid;
9      }
10
11
12
13      </style>
14  </head>
15  <body>
16      <div>
17          I am a div! I sure wish I had a border around me.
18      </div>
19  </body>
20 </html>
```

5. Given the code, what is the output?

```
1  const myFunction = function(parameter) {
2      var output = 'Hi ' + parameter
3
4      console.log(output)
5  }
6
7
8  myFunction('friend')
```

Hi friend

6. Name any 4 CSS properties:

1. height
2. width
3. border
4. color

<https://www.w3schools.com/cssref/>

7. What is the output of the following code?

```
1  var number = 10
2
3  if (number % 2 == 0){
4      console.log('HELLO')
5  }
6  else {
7      console.log('WORLD')
8  }
9
10 console.log('!!')
```

HELLO!!

8. What is the output of the following code?

```
1  var array = [7, 3, 9, 10, 13]
2
3  console.log('Array at element 0 is ' + array[0])
```

Array at element 0 is 7

9. What is the output of the following code?

```
1  var size = 2
2  var array = [7, 3, 9, 10, 13]
3
4  var counter = 0
5
6  while (counter < size){
7      array[counter] = counter
8
9      counter = counter + 1
10 }
11
12 console.log('Array at element ' + counter + ' is ' + array[counter])
```

Array at element 2 is 9

10. In the following code, how would you print out favorite food?

```
1  var myDetails = {  
2    name: 'My Name',  
3    birthday: 'MyBirthday',  
4    favoriteFood: 'Pizza',  
5  }  
6  
7  
8  
9  
10
```

`console.log(myDetails.favoriteFood)`

11. In the following code, what would be stored in `myValue`:

```
1  <!doctype html>  
2  <html>  
3    <head>  
4      <title> I am a website </title>  
5      <style>  
6        #greyDiv {  
7          background-color: lightgrey;  
8        }  
9      </style>  
10     .coolClass {  
11       font-size: 2em;  
12       font-weight: bold;  
13     }  
14   </head>  
15   <body>  
16     <p class='coolClass'>  
17       Hello World  
18     </p>  
19     <div id='greyDiv'>  
20       <p>
```



```

22     You could go visit google if you want by clicking below!
23     </p>
24     <a href='www.google.com'> Go to google! </a>
25 </div>
26 <p class='coolClass'>
27     I'm just a boring paragraph.
28 </p>
29 <div id='greyDiv'>
30     I like to steal IDs!
31 </div>
32
33 <script>
34     const myValue = document.getElementById('greyDiv')
35 </script>
36 </body>
37 </html>

```

```

1 "<div id='greyDiv'>
2     <p>
3     You could go visit google if you want by clicking below!
4     </p>
5     <a href='www.google.com'> Go to google! </a>
6 </div>"

```

12. In the following code, what value would be stored in `myValue`:

```

1 <!doctype html>
2 <html>
3   <head>
4     <title> I am a website </title>
5     <style>
6       #greyDiv {
7         background-color: lightgrey;
8       }
9
10      .coolClass {
11        font-size: 2em;
12        font-weight:bold;
13      }
14

```

```

15
16     .bestClass {
17         font-size: 1em;
18         color: black;
19         font-family: 'Comic Sans MS'
20     }
21 </style>
22
23 </head>
24 <body>
25     <p class='coolClass'>
26         Hello World
27     </p>
28     <div id='greyDiv'>
29         <p>
30             You could go visit google if you want by clicking below!
31         </p>
32         <a href='www.google.com'> Go to google! </a>
33     </div>
34     <p class='coolClass'>
35         I'm just a boring paragraph.
36     </p>
37     <div id='greyDiv'>
38         I like to steal IDs!
39     </div>
40
41     <script>
42         const myValue = document.querySelectorAll('p')
43     </script>
44 </body>
45 </html>

```

[p.coolClass, p, p.coolClass]

- You are welcome to go into more detail if you'd like, but all I'm looking for is that you understand what accesses what.

13. Write code as to how you would change the class of the value(s) returned in myValue add `bestClass` as a style class.

```
1   for (var i = 0; i < myValue.length; i++)
2   {
3       myValue[i].classList.add('bestClass')
4   }
5
6
```

14. In the following code, what value would be stored in `myValue`:

```
1   <!doctype html>
2   <html>
3       <head>
4           <title> I am a website </title>
5           <style>
6               #greyDiv {
7                   background-color: lightgrey;
8               }
9
10              .coolClass {
11                  font-size: 2em;
12                  font-weight:bold;
13              }
14          </style>
15      </head>
16      <body>
17          <p class='coolClass'>
18              Hello World
19          </p>
20          <div id='greyDiv'>
21              <p>
22                  You could go visit google if you want by clicking below!
23              </p>
24              <a href='www.google.com'> Go to google! </a>
25          </div>
26          <div class='coolClass'>
27              I'm just a boring paragraph.
28          </div>
29          <div id='greyDiv'>
```

```
31     I like to steal IDs!
32   </div>
33
34   <script>
35     const myValue = document.getElementsByClassName('p')
36   </script>
37 </body>
38 </html>
```

Null - there is no classname 'p'

15. In the code from the previous question, what document method is required to get this response back:

```
1 | HTMLCollection(2) [p.coolClass, div.coolClass]
```

```
1  const myValue = document.getElementsByClassName('coolClass')
2
3  _OR_
4
5
6  const myValue = document.querySelectorAll('.coolClass')
7
8
```

Code Analysis

styles.css

```
1  #container {
2    display: flex;
3    flex-wrap: wrap;
4  }
5
```

```
6  .class-one, .class-four {
7    width: 100%;
8    height: 10vh;
9    background: red;
10 }
11
12 .class-two {
13   width: 20%;
14   height: 80vh;
15   background: blue;
16 }
17
18 .class-three {
19   width: 80%;
20   height: 80vh;
21   background: green;
22 }
```

index.html

```
1  <!doctype html>
2  <html>
3    <head>
4      <link rel="stylesheet" href="./styles.css">
5
6    </head>
7    <body>
8      <div id="container">
9        <div class="class-one">
10
11        </div>
12        <div class="class-two">
13
14        </div>
15        <div class="class-three">
16
17        </div>
18        <div class="class-four">
19
20        </div>
21      </div>
22    </body>
23  </html>
```

Draw what the user will see in the box below. Label the areas with their colors.

