

(420-718-AB) CLIENT-SIDE WEB PROGRAMMING WINTER 2024

MIDTERM TEST # [Worth 30%]

Due: 24th January 2024 from 9.00AM to 12.00PM

Question 1: BOX MODEL

Understand the box model, know what is where and how to set every property: margin, borders (width, style, size), padding, height, width; Understand short-hand for margin, borders and padding as well as measuring element height and width (hint: margin isn't counted by default)

1. Which of the following will place a 5 pixel border on the left, a 10 pixel border on the top, a 5 pixel border on the right, and a 10 pixel border on the bottom?

```
a) border-width: 5px 10px 5px 10px;
b) border-height: 5px 10px 5px 10px;
c) border-size: 10px 5px 10px 5px;
d) border-weight: 5px 10px 5px 10px;
e) border-width: 10px 5px 10px 5px;
```

2. Given the following style sheet, calculate the width that is displayed in yellow.

```
body { background-color: white; margin: 0; padding: 0;
}
```

```
header {
background-color: yellow;
margin: 20px;
padding: 10px;
border: 5px solid yellow;
width: 200px; height: 100px;
}
a) 200px b) 370px c) 240px d) 230px e) 270px
```

3. Choose the item that creates an image link to the school.html page when the school.gif graphic is clicked.

```
a. <a href="school.html" src="school.gif" alt="school"></a>
b. <a href="school.html"><img src="school.gif" alt="school"></a>
c. <img src="school.gif" href="school.html" alt="school">
d. <a href="school"><img src="school.gif" href="school.html" alt="school.html" alt="school"></a>
```

4. Select the code below that will configure a background image called parchment.gif for a web page using CSS.

```
a. body {background-image:url(parchment.gif); }
b. document {background:parchment.gif; }
c. body {background:parchment.gif'}
d. body {background-color:parchment.gif;}
```

5. Select the code below that configures a class called "offer" with blue text, 1.2em, and Arial or sans-serif font using CSS.

```
a. .offer { color:blue; font-size:1.2em; font-family:sans-serif;}
b. .offer { color:blue; font-size:1.2em; font-family:Arial,sans-serif;}
```

```
c. .#offer { text:blue; font-size:1.2em;
font-family:Arial, sans-serif;}

d. #offer { text:blue; font-size:20px;
font-family:Arial, sans-serif;}
```

Question 2: SEMANTICS

1. In the code below, who is the parent of the <a> element?

2. What is the relationship between the div element with id = "selected" and the <html> root element?

D. The <div> element is the sibling of the root <html> element

3. What will be the font size in pixels of the <h1> and <p> elements below ? Please explain why that is.

```
<!-- Assume that the browser's default font-size is 16px -->
<head>
   <style>
       h1 {
            font-family: 'Rubik', sans-serif;
        main {
           font-size: 18px;
        }
        p {
           font-size: 1rem;
    </style>
    <title>Document</title>
</head>
<body>
    <main>
        <h1>Heading 1</h1>
        Lorem ipsum dolor sit amet consectetur.
    </main>
</body>
```

Question 3: SYNTAX & HTML ELEMENTS

1. Which line of HTML code demonstrates an element having an attribute named title?

```
A.  The Earth is round.
B. title
C.  The Earth is round.
D. The Earth is round.
```

2. The following code is supposed to display an image, but fails to do so. Why?

```
<img href="./assets/smiley.gif" alt="Smiley face">
```

- A. The relative path to the image has a syntax mistake.
- B. The tag can only display .png, .jpeg and .svg image formats.
- C. The src attribute is missing and must be set equal to the image URL.
- D. The image URL should be set in single quotation marks.
- **3.** Markup languages use special symbols in human readable text in order to create a hierarchy of information which serves several purposes. Which statement below is not a purpose of html markup:

- A. it allows users scanning a site to quickly pick out the most important ideas.
- B. it helps visually impaired users navigate the content of a page using special software.
- C. it helps search engines pick out important keywords that might otherwise get lost in a sea of text.
- D. it helps developers style the document in a dynamic way.
- **4** . Given the following directory structure, how would one create a link to second_page.html from the page index.html ?

```
Simple_Page/
— contact.html
— css
— contact.css
— style.css
— img
— leaf.png
— logo.jpeg
— second_page.png
— index.html
— secondary
— second_page.html
```

```
A. . . / img / second_page.htmlB. . / secondary / second_page.htmlC. . . / Simple_Page / second_page.htmlD. . / img / second_page.png
```

5. Given the code below, why is the color of the <a> element not red like it's parent?

HTML

```
A. <div id="red-section">
B. <h3>This container is red</h3>
C. <a href="#">Click here for more</a>
D. </div>
```

CSS

```
A. #red-section {
B. color: red;
```

C. }

RESULT

This container is red

Click here for more

Question 4: PRACTICAL

Please read the instructions carefully:

- Download *test1.zip* and extract the content.
- You will recreate the website illustrated by **website-example.png** in **test1** folder.
- This test is divided into **five** parts.
- Every part will add a section to the website. For example, part two adds a navigation bar and part 5 adds a footer.
- Your files for this question should be in a .zip file named [student id]-test1.zip containing the html files and assets needed to have a functional website.



Code structure:

- · Create an **index.html** file in the **[student id]-test1** folder.
- · Create a **style sheet** and link it to your html file.

Part 1: General CSS properties

- Add the proper CSS resets to set margins and paddings of all elements to zero.
- Add the proper CSS property such that all elements have box-sizing property set to border-box.
- Set the font of the webpage to Segoe UI[1] [2] [MAB3]. It is a sans-serif font.
- Font size unit should be relative to the root html element for all elements.
- Only use external style sheets.

Color palette for reference

8C8056	002046	AF996A	F1A023	4C3410
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Part 2: Navbar

For this part, refer to the navbar folder in the given folder.

Recreate the navbar illustrated in navbar-example.png using the starter code in nav starter.txt file.

Requirements:

- The navbar has width 450px.
- The navbar must always be centered horizontally on the page.
- The hyperlinks are slightly bolder than the default values.
- Paddings should be relative to the font size of the element it is applied on.
- History will take you to this https://www.forbes.com/advisor/investing/what-is-cryptocurrency/
 page. Pay special attention to the target attribute.
- The background color is #8C8056 and font color is #002046.

Part 3: Hero

For this part, refer to the *hero* folder in the given folder.

Recreate the hero section illustrated in hero-example.png using the starter code in hero starter.txt file.

Requirements:

- The background image *Cryptocurrency.jpg* is in the *hero* folder.
- The image covers the whole width of the browser.
- The image has a height of 600px.
- The image should always be centered when the browser width is decreased.
- The text colors are #af996a and #F1A023.
- Font sizes should be relative to the root html element.
- The colors needed for the Buy Now button: #4C3410 & #F1A023.
- The width of **Buy Now** is 150px.

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Margins and paddings should use a unit relative to a font-size .

Part 4: Features (30 points)

For this part, refer to the features folder in the given file.

Recreate the features section illustrated in features-example.png. No starter code is given in this part, you

must write the html markup. Images are provided.

Requirements:

• Use semantic elements.

• Both sections take an equal part of the parent container.

The images take width 80% of the parent container.

The colors needed: #4C3410 & # 8C8056.

Font sizes should be relative to the root html element.

Margins and paddings should use a unit relative to a font size.

Part 5: Footer (10 points)

For this part, refer to the *footer* folder in the given folder.

Recreate the footer section illustrated in *footer-example.png*. No starter code is given.

Requirements:

• Use semantic elements.

Colors needed: #8C8056 & #002046

IMPORTANT: Submission guidelines

- 1. Submit a single zip folder of a pdf document (answers for questions 1, 2 and 3), with your folder for question 4 (containing test1 folder) as well as screenshots of your obtained view from question 4.
- **2.** Only the last submission will be evaluated.
- 3. Failure to follow these guidelines will result in losing points
- **4.** Plagiarism and cheating will be strongly penalized as per college policies.
- **5.** Do not submit any work via MIO or TEAMS.