CS472 Web Programming Midterm
Professor Rujuan (Tina) Xing

Student Id: _____   **Name:**_____

The exam takes 2.5 hours.

Please read the exam policy before you start the exam.

Exam Policy:

There is no tolerance policy for exams. **You will be asked to leave the exam room immediately without a warning** once you do the following things which mean you'll get **NC**.
1. You are caught cheating or trying to cheat.
2. Answers should be written with a Pen or Pencil, but if you want to use a pencil please bring your own eraser and sharpener. You're not allowed to borrow from other students or proctors during exam.
3. All mobile phones should be turned off and submitted along with your luggage at the beginning of the exam.
4. Please get ready and use the washroom before the exam as **no one** will be allowed to leave the exam room before turning in their papers. (no restroom, no water)
5. You're not allowed to ask/get extra papers from other students or proctors. All your notes must be written on the exam paper provided. Use the back side if you need to draft.

Please write down your answer clearly. If I cannot read your answer, you'll not get credit.

Good luck!

PART I (10 points): True/False

1. <u>True</u> HTTP was originally designed to be stateless, which means that Web browsers stored no persistent data about a visit to a Web site.
2. <u>False</u> Hidden form fields maintain state information between Web pages, and the data they contain are shown in the browse bar when we use POST method to submit form.
3. <u>True</u> `<br />` is an inline element since it makes the text start with a new line.
4. <u>True</u> `text-align:center` can be used to center inline elements horizontally.
5. <u>False</u> `font-color` property in css is used to change the text color of an element.
6. <u>False</u> The `css` attribute of HTML is used to define inline css style.
7. <u>True</u> You can use a `for...in` loop to determine if values are being assigned to the c operties in an object.
o 8. <u>False</u> In Javascript, the only way to invoke a function is through functionName and
r append () after it, such as `myFunction()`.
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PART II (10 points): Multiple Choices. Circle the correct answer.

11. When describing the structure of HTML code, which of the following is NOT a correct statement?
    A. Some HTML elements require only a start tag.
    B. All HTML elements may have attributes applied to them.
    C. HTML elements are marked with start and end tags.
    D. All attributes control the appearance of the element's text.
    Answer: D

12. What is the output? `var x = 100/"Banana";`
    A. `null`
    B. `NaN`
    C. `undefined`
    D. `Infinity`
    E. None of the above
    Answer: B

13. If you pass less number of parameters than the expected number of parameters to a function, the missing parameters get assigned the value_____.
    A. `undefined`
    B. `null`
    C. Syntax Error
    D. None of **the** above
    Answer: A

14. Consider this CSS code:
    ```
    div {
       color: pink;
    }
    ```
    Which of the following statements about this code is NOT correct?
    A. The braces ({ }) are optional.
    B. The line breaks are optional—the code may all appear on one line.
    C. The two spaces at the start of the second line are optional.
    D. The semicolon (;) is optional.
    Answer: A, D

PART III (20 points): Short answer questions

15. **(10 points)** Explain the following CSS selectors which elements will be selected and provide a concise HTML example

    For example: `div`
    Answer: Select all div elements on the page
    ```
    <div>some text</div>
    ```

    a. `div#a`

    Answer: Select the div element with id "a"
    ```
    <div id="a">some text</div>
    ```

    b. `section .b`

    Answer: Select any element with class "b" that is a descendent of a section element
    ```
    <section>
     <div class="b">some text</div>
     <p   class="b">some text</p>
    </section>
    ```

    c. `div#b.mytest > article`

    Answer: Select all article elements which are direct children of div element having class "mytest" and id of "b"
    ```
    <div id="b" class="mytest">
     <article>some text</article>
    ```

```
</div>
```

d. div .c > span.special

Answer: Select all span elements having class "special" which are direct children of any element having class "c" that are descendants of any div element.

```
<div>
 <div class="c">
  <span class="special">some text</span>
 </div>
 <p class="c">
  <span class="special"> some text</span>
 </p>
</div>
```

e. header ul#nav li

Answer: Select all li elements which are inside a ul with "nav" id and are descendants (inside) of header element

```
<header>
 <ul id="nav">
  <li>some text</li>
  <li>some text</li>
 </ul>
</header>
```