

CIS 228 (Fall, 2012)

Final Exam, 12/18/12

Name (sign) _____

Name (print) _____

email _____

Question	Score
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
TOTAL	

Question 1

True or false:

- ___ A **p** element *cannot* have an **ol** element embedded within it.
- ___ An **a** element *cannot* have another **a** element embedded within it.
- ___ Images *cannot* be used as labels for hyperlinks.
- ___ The **td** elements *cannot* contain **table** elements.
- ___ The **caption** element *cannot* be the first child of a **table** element.
- ___ The columns of a table *cannot* be specified by the **tc** element.
- ___ URL's in CSS *cannot* be specified using the "href" attribute.
- ___ Event attribute values *cannot* contain calls to JavaScript functions.
- ___ A web page *cannot* access JavaScript functions defined in a separate file.
- ___ JavaScript *cannot* automatically convert Strings to numbers.

Question 2

Indicate which of the following tasks could be best accomplished using HTML (H), CSS (C), or JavaScript (JS).

___ Specify that the elements of a list should be numbered using capital letters.

___ Specify an action to be taken when a button is pushed.

___ Make row or column headings in a table.

___ Add an element to an ordered list in responses to user input.

___ Specify that the borders around consecutive cells in a table be fused together.

___ Specify a title for a button on a form.

___ Calculate the total field of a form.

___ Create a hyperlink to another file.

___ Solicit the users name when a web page is first loaded.

___ Specify the font to be used for the text inside a **q** element.

Question 3

Indicate which of the following identifiers is the name of

C – an HTML character entity,

E – an HTML element,

A – an HTML attribute,

P – a CSS property,

J – a JavaScript keyword or function

___ video

___ class

___ option

___ createElement

___ border

___ function

___ display

___ alert

___ section

Question 4

Fill in the blanks with the name of an HTML element that could be an immediate child of the element named on its right and could be the immediate parent of the element on its left. Put an X in any blank that no element could fit.

Example: html body p img X

 title

 caption

 br

 article

 option

 a em

 tr table

 li li

 style

Question 5

The following is the file and directory structure of the www.mylibrary.com website.

```
/
  index.html
  index.css
  BOOKS
    BIOGRAPHY
      napoleon.html
      wellington.html
    HISTORY
      FRANCE
        revolution.html
  PICTURES
    napoleon.jpg
```

- A) In **index.html**, create a hyperlink to **napoleon.html** labeled “Napoleon”.
- B) In **wellington.html**, create a hyperlink to **napoleon.html** labeled “defeated”.
- C) In **napoleon.html**, embed the **napoleon.jpg** image.
- D) In **revolution.html**, create a hyperlink to **napoleon.html** labeled with **napoleon.jpg**.
- E) In **index.css**, create a rule making **napoleon.jpg** the background image on a page.

Question 6

For each of the CSS selectors below, show its “specificity tuple” and describe the HTML elements that would be displayed in red if it were used in the following rule:

_____ { color : red ; }

Order the selectors from most to least specific:

- a) **section#sports**
- b) **li.editorial p em.oped**
- c) **table#deaths th.contry li**
- d) **nav**
- e) **article ol q**
- f) **a#weather:visited**
- g) **form.news**
- h) **section#classified > div.ad**
- i) **header + blockquote**
- j) **ul p**

Question 7

Write a complete HTML 5 (standards compliant) document that corresponds to the following DOM tree:

```
html
  head
    meta charset="utf-8"
    title
      TODO Today
  body
    h2
      shopping
    ol
      li
        soap
      li
        supplies
      ul
        li
          pencils
        li
          pens
      li
        radio
```


Question 8

Write the HTML 5 elements to create approximately the following table (don't worry about styling it).

Score

	red	black
odd	2	-2
even	-2	new 4
		old -4

Question 9

Create an order form for a candy store. The form will be processed by the “/order.php” script at the “www.candy.com” domain. Be sure to include a button that will cause the form to be submitted. Remember that the browser will transform a completed form into a sequence of name-value pairs and submit them to the application. The names for this form are listed in *italic* and described below. You don't need to specify a complete webpage, just the form. Don't worry about styling the form. But, do make sure that the user has enough information to fill it out.

item: use a menu to allow selection of “chocolate”, “caramel”, or “taffy”.

address: space for up to 4 lines of text 80 columns wide.

card: either “MasterCard” or “Visa”.

number: space for a credit card number (disguise the characters as they are typed).

Question 10

Briefly describe what the following JavaScript code fragments do

```
7 + " shoes";
```

```
alert("Date not specified!");
```

```
var date = prompt("Enter date", "12/18/12");
```

```
window.onload = init;
```

```
var name = document.getElementById("name");
```

```
var fido = new Dog("Fido", "mixed", 20);
```

```
var li = document.createElement("li");
```

```
var c = list.getAttribute("class");
```

```
function random(n) { return Math.floor(n*Math.random()); }
```

```
var list = document.getElementById("list");
```

```
var li = document.createElement("li");
```

```
li.innerHTML = "Lehman College";
```

```
list.appendChild(li);
```