Exam II  
CIS 228: The Internet  
Prof. St. John  
Lehman College  
City University of New York  
3 April 2008

NAME (Printed) ________________________________  
NAME (Signed) ________________________________  
E-mail ________________________________________  

Exam Rules

- Show all your work. Your grade will be based on the work shown.
- The exam is closed book and closed notes.
- When taking the exam, you may have with you pens or pencils, and an 8 1/2” x 11” piece of paper filled with notes, programs, etc.
- You may not use a computer or calculator.
- All books and bags must be left at the front of the classroom during this exam.
- Do not open this exam until instructed to do so.

<table>
<thead>
<tr>
<th>Question 1</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Question 2</td>
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<td>Question 3</td>
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<td>Question 8</td>
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<tr>
<td>Question 9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Question 10</td>
<td></td>
<td>TOTAL</td>
</tr>
</tbody>
</table>
1. True or False:

(a) ___ You can validate CSS files, in the same way you validate HTML files.
(b) ___ Every CSS property declaration ends with a period.
(c) ___ \texttt{em} specifies absolute sizes for fonts.
(d) ___ If you mix 100\% red, 100\% green, and 100\% blue you will get black.
(e) ___ In strict HTML, you can nest block elements inside block elements.
(f) ___ Pseudoclasses must be defined in your HTML file to be used.
(g) ___ The \texttt{div} element is used to style in-line elements.
(h) ___ Tables are defined in columns, using the \texttt{<tc>} element.
(i) ___ The \texttt{<th>} element can designate either row or column headings.
(j) ___ POST and GET are both ways of sending data to the web application.

2. Answer in two sentences or less the following:

(a) What does the padding property do? Give an example.

(b) What does the margin property do? How does it differ from the padding property?

3. For each of the following, identify whether it would be done in HTML or CSS:

(a) ______ organize items in a table
(b) ______ include an image
(c) ______ set the width of an element
(d) ______ change the text alignment of a paragraph
(e) ______ change the background color of the page
4. Fill in the following table with the corresponding decimal or hexcode representation of the number. For partial credit, show your work.

<table>
<thead>
<tr>
<th>Decimal</th>
<th>Hexcode</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>#11</td>
</tr>
<tr>
<td>20</td>
<td>#ab</td>
</tr>
<tr>
<td></td>
<td>#ff</td>
</tr>
</tbody>
</table>

5. Write the HTML that does the following:

(a) makes a text box where the user can enter their name:

(b) makes a “submit” button with label, “Order now”:

(c) allows the user to select condiments for their order from salt, pepper, garlic (allow multiple items to be selected):

(d) makes a drop-down menu with a choice of: “House Blend,” “Shade Grown Bolivia,” “Organic Guatemala,” or “Kenya.”
6. Be the browser with the following HTML and CSS files. Draw the page and indicate any style (color, borders, etc) on your page:

**HTML:**

```html
<html xmlns="http://www.w3.org/1999/xhtml" lang="en">
    <head>
        <title>Favorite Food</title>
        <link type="text/css" rel="stylesheet" href="food.css" />
    </head>
    <body>
        <div id="header"><h1>My Favorite Foods</h1></div>
        <div id="sidebar">
            <p>Recipes for both of these can be found in books on Italian and Spanish cooking at <a href="http://amazon.com">Amazon</a>.</p>
        </div>
        <div id="pesto">
            <h2>Pesto</h2>
            <p><a href="pesto.html">Pesto</a> is made from fresh basil, garlic, olive oil, and salt.</p>
        </div>
        <div id="dulce">
            <h2>Dulce de Leche</h2>
            <p>The ice cream, <a href="dulce.htm">Dulce de Leche</a>, is made from milk and sugar and has a smooth caramel taste.</p>
        </div>
        <div id="footer">
            <p>Katherine St. John, <span class="email">stjohn@lehman.cuny.edu</span></p>
        </div>
    </body>
</html>
```

**CSS:**

```css
div {
    border: dotted black 2px;
}
#sidebar {
    width: 100px;
    float: right;
    background-color: blue;
}
#footer {
    clear: both
}
#pesto {
    background-color: green;
}
#dulce {
    background-color: silver;
}
.email {
    font-family: Courier, monospace;
}
```
7. Write a complete CSS style sheet that:
   - uses a sans-serif font throughout the page,
   - has a non-white background color,
   - `<h1>` and `<h2>` headings have a dotted bottom border,
   - `<h1>` headings should have white text, and
   - paragraphs inside a div element from the class options have solid borders.

8. Write the HTML code and the style sheet for the table with the following information:
   (Hint: Remember to align the text for each cell.)

   Fall 2007: Total Enrollment by Undergraduate and Graduate Level

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Graduate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lehman College</td>
<td>8,864</td>
<td>2,058</td>
<td>10,922</td>
</tr>
<tr>
<td>Community Colleges</td>
<td>76,864</td>
<td></td>
<td>76,864</td>
</tr>
<tr>
<td>Total University</td>
<td>203,515</td>
<td>29,445</td>
<td>232,960</td>
</tr>
</tbody>
</table>
9. Write the style sheet that will arrange the following page:

- the main and sidebar sections should be side-by-side, and not overlapping,
- the award should be positioned on top of and overlapping the header, main, and sidebar sections,
- the coupon should have a fixed position, halfway down the browser’s left edge,
- the footer should clear both sections.

(Hint: Do not change any of the HTML code.)
Why wait? You can order all our fine coffees right from the Internet with our new, automated Bean Machine. How does it work? Just click on the Bean Machine link, enter your order, and behind the scenes, your coffee is roasted, ground (if you want), packaged, and shipped to your door.
10. Write a **complete** HTML file *and* CSS file to display a blog page. The page should have a header (with title) and a footer (with your contact information), as well as a navigation sidebar with links to the entries in your page. You should include at least three entries, each containing the date, a short paragraph, and an image. When the user clicks on a date listed in the sidebar menu, the page should reload to that part of the page (hint: use destination anchors). The sidebar should appear to the right of the blog entries, and the footer should be at the bottom of the page, not overlapping any other section (i.e. it should “clear” all other sections).