

SAMPLE SAMPLE SAMPLE
IT350 Web & Internet Programming
6-Week Exam
25 Sep 2006

Name _____ Alpha _____

Section: 2001 4001 6001

Note:

1. For this exam you may use the following (but these may not be shared with other students):
 - a. Your course handouts (with your written notes), including sample exams
 - b. Other handwritten notes you have brought
 - c. Your printed labs from this course
2. You may not use:
 - a. The textbook or any other book
 - b. Any printed materials not specifically listed above
3. No calculators/PDAs/computers are permitted.
4. To receive partial credit, show all work.
5. If asked for a HTML snippet/fragment, just write the relevant part – no need to provide the prelude etc.

WORK QUICKLY AND DO THE EASY PROBLEMS FIRST!

Page 2 (10 pts) _____

Page 3 (8 pts) _____

Page 4 (8 pts) _____

Page 5 (8 pts) _____

Page 6 (6 pts) _____

Page 7 (10 pts) _____

TOTAL(50 pts) _____

Note: After completing this exam, you may not discuss it with anyone until after Wed, 27 Sep.

(10 pts) Show all changes necessary to make the following valid XHTML 1.1. You can change formatting if needed but do not eliminate any visible content. Create appropriate new tags/content if necessary.

(Hint: there is nothing wrong with the first four lines)

```
<?xml version = "1.0" encoding="utf-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
  "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns = "http://www.w3.org/1999/xhtml">

<title> USNA Popular links

<meta content = "USNA Links" >

<body>

  <h1> Check out these <strong>links! </h1> </strong>

  <table>

    <td> <a href="rates.html"  Today's rates </a>

    <td> <a href="weather.html"  Today's weather </a>

  </table border="1" >

  That's all!

</body>

</html>
```

(6 pts) Assume the following snippet is embedded in a XHTML file. Draw a picture of the table as it would be rendered by a browser.

```
<table border="5">
  <caption>Data</caption>
  <tr>
    <td> 87 </td>
    <td rowspan="2"> 73</td>
    <td> 94 </td>
  </tr>
  <tr>
    <td align="right"> 9 </td>
    <td> 23 </td>
  </tr>
  <tr>
    <td> 65 </td>
    <td colspan="2" align="right"> 67 </td>
  </tr>
</table>
```

(2 pts) Suppose an XHTML file contains the code:

```
<a href="more.html" target="_top"> More info</a>
```

To be valid, what type of XHTML must the file be?

- a.) 1.0 Frameset
- b.) 1.0 Transitional
- c.) 1.1
- d.) 1.1 Compatible

(2 pts) Regarding XHTML forms: What kind of security do variables of type “password” provide?

(2 pts) What kind of security do “password” variables not provide?

(2 pts) Consider this XHTML form:



Which is the best “method” to use in the form? Give one reason why this is true.
(no credit for right answer with wrong reason)

(2 pts) You create a valid XHTML file on your hard drive called “test.shtml”. Inside the <body> of that file, you write the following line:

```
<!-- #include file="links.txt" -->
```

The file links.txt exists and is in the same directory. Yet, when you double-click on test.shtml, the browser output doesn’t seem to include the content of “links.txt” as you would expect. Why not?

(8 pts) Write an external stylesheet that will:

- Make every <h1> and <h2> have a red background and white text.
- Define a class “big” that can be used selectively to make any element have 20pt text.
- Make all images appear on the right side of the window, with text flowing around them to the left.

(12 pts) Consider the stylesheet below. (Line numbers have been added on the left side).

- (1) `body { font-size: 10pt }`
- (2) `.h3 { font-size: 12pt }`
- (3) `#h3 { font-size: 14pt }`
- (4) `h1, li { font-size: 16pt }`
- (5) `h1 li { font-size: 18pt }`
- (6) `p { font-size: 20pt }`
- (7) `h2 span { font-size: 22pt }`
- (8) `h2, span { font-size: 24pt }`

Assume the stylesheet above has been properly linked to the HTML fragment below. Now, for each line of the HTML document that contains letters like AAAAAA or BBBB, write the number of the corresponding line of the stylesheet that will affect the display of that HTML, if any.

Example: line 6 of the stylesheet will affect the first `<p>` element, so that is marked to the left of that element. You should have a total of 6 more responses, one for each of BBBB to GGGG.

`<body>`

6

`<p> AAAAAA </p>`

`<h1> BBBB`

` CCCC`

` DDDDD `

`<p class = "h3" > EEEEE </p>`

` `

`</h1>`

`<h3> FFFFF </h3>`

`<p id = "h3"> GGGGG </p>`

`</body>`

(6 pts) Suppose the following snippet is correctly placed in a valid XHTML file. Draw a picture of what the browser would display for this file, assuming it is displayed at full screen resolution. Label each pane with the file that would be displayed in that pane.

```
<frameset cols = "75, *">
  <frameset rows = "50, *">
    <frame name = "body1" src="fox.html" />
    <frame name = "body2" src="panda.html" />
  </frameset>
  <frameset cols = "50%, *">
    <frame name = "body1" src="cat.html" />
    <frame name = "body2" src="mouse.html" />
  </frameset>

  <noframes> <body>
    <p>Your browser does not support frames.
      You can instead browse the
      <a href="fox.html"> main page</a>. </p>
  </body> </noframes>
</frameset>
```

(10 pts) Below is a legal XHTML document that includes JavaScript.

```
<?xml version = "1.0" encoding="utf-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns = "http://www.w3.org/1999/xhtml">
  <head>
    <title>Test file</title>
    <script type = "text/javascript">

      a = window.prompt("Enter a count:");
      b = 4;
      c = 2;

      d = a + a;
      e = b + c * b - c;
      f = c + c + "b";

      document.writeln ("<p>");
      document.writeln ("<br /> d = " + d);
      document.writeln ("<br /> e = " + e);
      document.writeln ("<br /> f = " + f);

      if ("false") {
        document.writeln ("<br /> IF taken");
      }
      else {
        document.writeln ("<br /> ELSE taken");
      }

      document.writeln ("</p>");
    </script>
  </head>
  <body>
    <p> Beat Army! </p>
  </body>
</html>
```

Show the complete result (output) of loading this page into a browser (assume the user enters “7” when prompted).