Final exam

NAME: _______________________

DIRECTIONS:

• This test is closed book and closed notes. Total time limit 2 hours and 50 minutes (170 minutes).

• You can answer each question on the exam sheets. Attach separate sheets if needed.

• Problems weighed as marked. There is a maximum of 130 points.
1. (24 pts) For each of the following, give a definition or a short description of what it is.

(a) Input sanitization

(b) Internet Service Provider

(c) Domain name registrar

(d) GET HTTP method

(e) HTML form hidden field

(f) HTML form attributes
(g) browser cookie

(h) PHP session

(i) Document object model

(j) JavaScript regular expression

(k) AJAX

(l) CSS selector
2. (20 pts)

(a) Explain common flaws in web site design regarding authentication.

(b) Explain how web authentication can be made as secure as possible.
3. (24 pts)
   Explain the following terms related to contract law:
   (a) Offeror
   (b) Offeree
   (c) Counteroffer
   (d) Mailbox rule
   (e) Breach of contract
   (f) Contract rescission
   (g) Repudiation
   (h) Contract performance
4. (18 pts) You are hired to create a web site for a store that sells furniture online. You plan to go through the following phases. For each phase, explain what you would do.

(a) Information gathering

(b) Planning (storyboard)

(c) Design

(d) Development

(e) Testing and deployment

(f) Maintenance
5. (20 pts) You are hired to create a web site for a store that sells furniture online.

(a) Describe the tasks that need to be performed. Include some details (for example, do you need a database, if so for what and which tables.)

(b) Describe how the tasks would be distributed among a number of teams that will work on this project.

(c) Describe your plan for communication between the teams.
6. (24 pts)

Reminder on CSS selectors:

- Universal selector: *
- Type selector: b
- Class selector: .classname
- ID selector: #idname
- Descendant selector: div em
- Child selector: div > em
- Adjacent sibling selector: div + em

The document on the next page produces the text below. Indicate the color of each part of the text.

Header

In this paragraph, we illustrate the use of several HTML tags. One can use emphasized text and emphasized text within emphasized.

One can use ordered lists:

1. Item one
2. Item two
3. Item three

One can use unordered lists:

- Item four
- Item five
- Item six
In this paragraph, we illustrate the use of several HTML tags.
One can use <em>emphasized text</em> and <em>emphasized text</em> within <b>emphasized</b>.
One can use ordered lists:
<ol>
<li>Item one</li>
<li>Item two</li>
<li>Item three</li>
</ol>
One can use unordered lists:
<ul>
<li id="four">Item four</li>
<li class="special">Item <b>five</b></li>
<li>Item six</li>
</ul>