

CS472 W2D5 Midterm- Sep 14th 2013

HTML [10 pts]

1. [1 pt] Why is the `<i>` tag deprecated?

to see it create confusion?

-1

2. [2 pts] Say I wanted to update `http://mumstudents.org/cs472/index.php` to show a list of students. Write a relative link to your own home page (list of assignments) to add to the list:

+1 `` -1

3. [2 pts] When HTML is rendered all blank space is turned into a single space. How could you show 3 spaces in a row using only HTML (no CSS)?

- using characters " "

-2

4. [5 pts] Write a basic HTML page that says "Hello, world" and has all the minimally required elements to pass HTML5 validation:

```
<!DOCTYPE html>
<html> <head> <title> ... </title> </head>
  <body>
    <p>Hello<br>
      world</p>
  </body>
</html>
```

+3

-2

CSS Styling [10 pts]

5. [2 pts] If there is a conflict between an external style sheet and an embedded style sheet (`<style>` tag) who wins?

* External style sheet

- 2

6. [6 pts] What are the foreground and background colors of the following elements? Please do not ask me if I made any mistakes in the HTML or CSS – what is shown is correct.

+5

	FG	BG
What fg and bg colors?	red	lightcyan
What about my colors?	black X	yellow
And what about here?	black	yellow

-1

```

<body>
  <p id="important" class="first">What fg and bg colors?</p> blue-red
  <p class="highlight" id="second">What about my colors? = green
    <span class="important first highlight">And what about here?</span>
  </p>
</body>

```

```

body {
  color: brown;
  background-color: lightcyan;
}
.first {
  color: blue;
}
.second {
  color: green;
}
#important {
  color: red; - red
}
.highlight{
  background-color: yellow; -
  color: black;
}
p.highlight {
  color: orange;
}

```

brown
lightcyan

7. [2 pts] Write CSS to make the `<p>` tag that has both class **a** and **b** have bold text:

```

<p class="a">not this one</p>
<p class="b">or this one</p>
<p class="a b">but this one</p>

```

* a**b** {
 font-weight: bold
}

- 0.5

CSS Layout [15 pts]

8. [4 pts] Write CSS to create the layout in the screenshot based on the HTML shown in the question below:

```

div#one {
    text-align: left;
    top: 0px;
    left: 0px;
    < x are flow relative
}

div#two {
    position: absolute;
    width: 100px;
    height: 300px;
    < x float
}

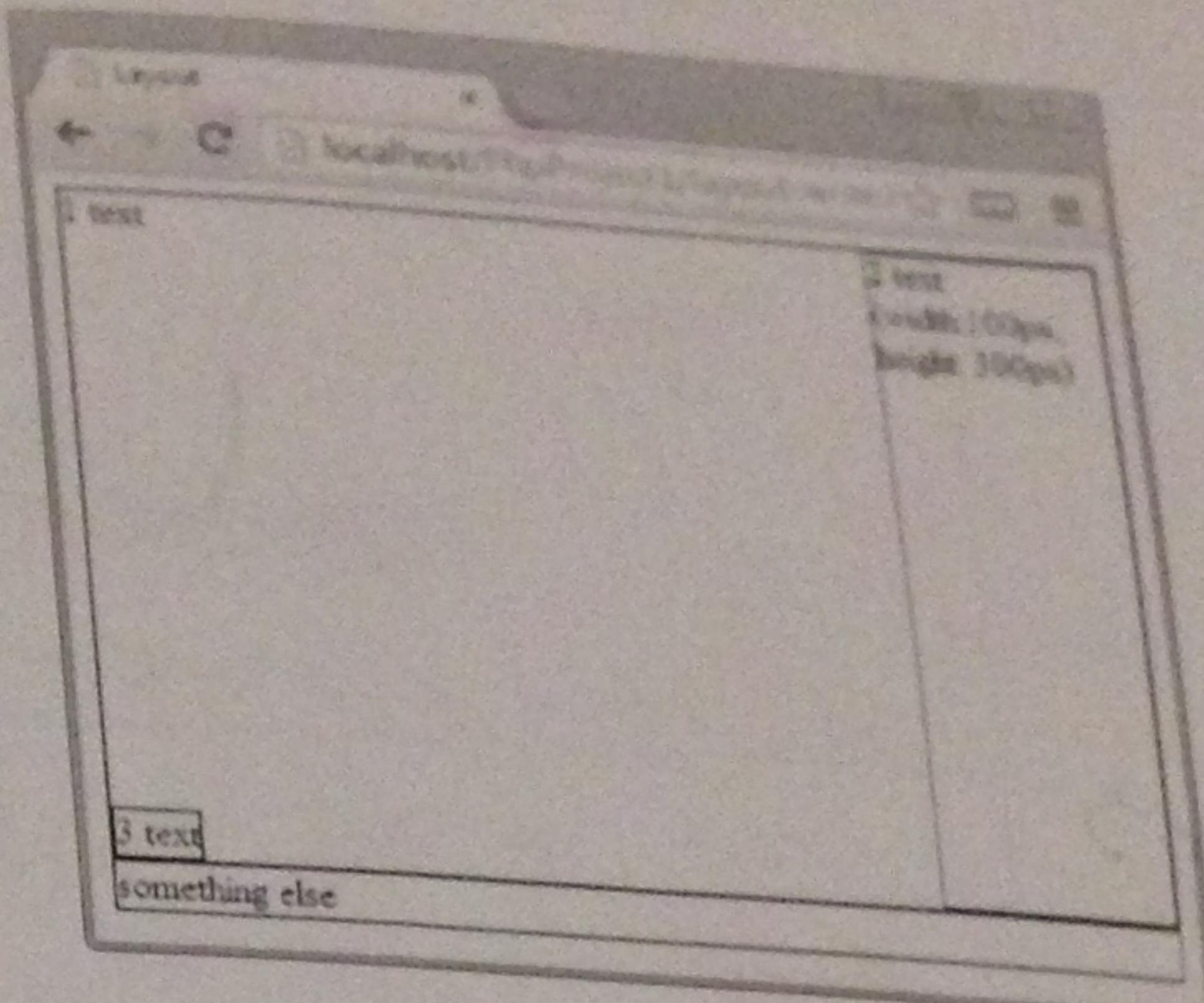


+25-


div#three {
    position: absolute;
    left: 10px; bottom: 0px;
}

div#some {
    width: 100%; }

```



- 1.5

9. [8 pts] Draw the layout for the following HTML in the 4 boxes on the next page, based on the scenarios shown in the table on below

```

<body>
    <div id="one">
        1 text
        <div id="two">
            2 text
            <div id="three">
                3 text
            </div>
        </div>
    </div>
    <div id="some">some<span class="thing">thing</span> else </div>
</body>

```

<p>/* No CSS */</p> <p><i>1 text 2 text 3 text</i></p>	<p>#one { float: right; }</p> <p>#two { clear: right; }</p>
<p>#one {</p> <p>position: relative;</p> <p>top: 100px;</p> <p>height: 100px;</p> <p>}</p> <p>#two {</p> <p>position: relative;</p> <p>left: 100px;</p> <p>}</p> <p><i>1 text</i></p> <p><i>2 text</i></p>	<p>#one {</p> <p>position: relative;</p> <p>height: 100px;</p> <p>}</p> <p>#two {</p> <p>position: fixed;</p> <p>bottom: 0px;</p> <p>right: 0px;</p> <p>}</p> <p>#three{</p> <p>position: absolute;</p> <p>bottom: 50px;</p> <p>right: 50px;</p> <p>}</p> <p><i>3 text</i></p>

CSS Layout [15 pts]

8. [4 pts] Write CSS to create the layout in the screenshot based on the HTML shown in the question below:

```

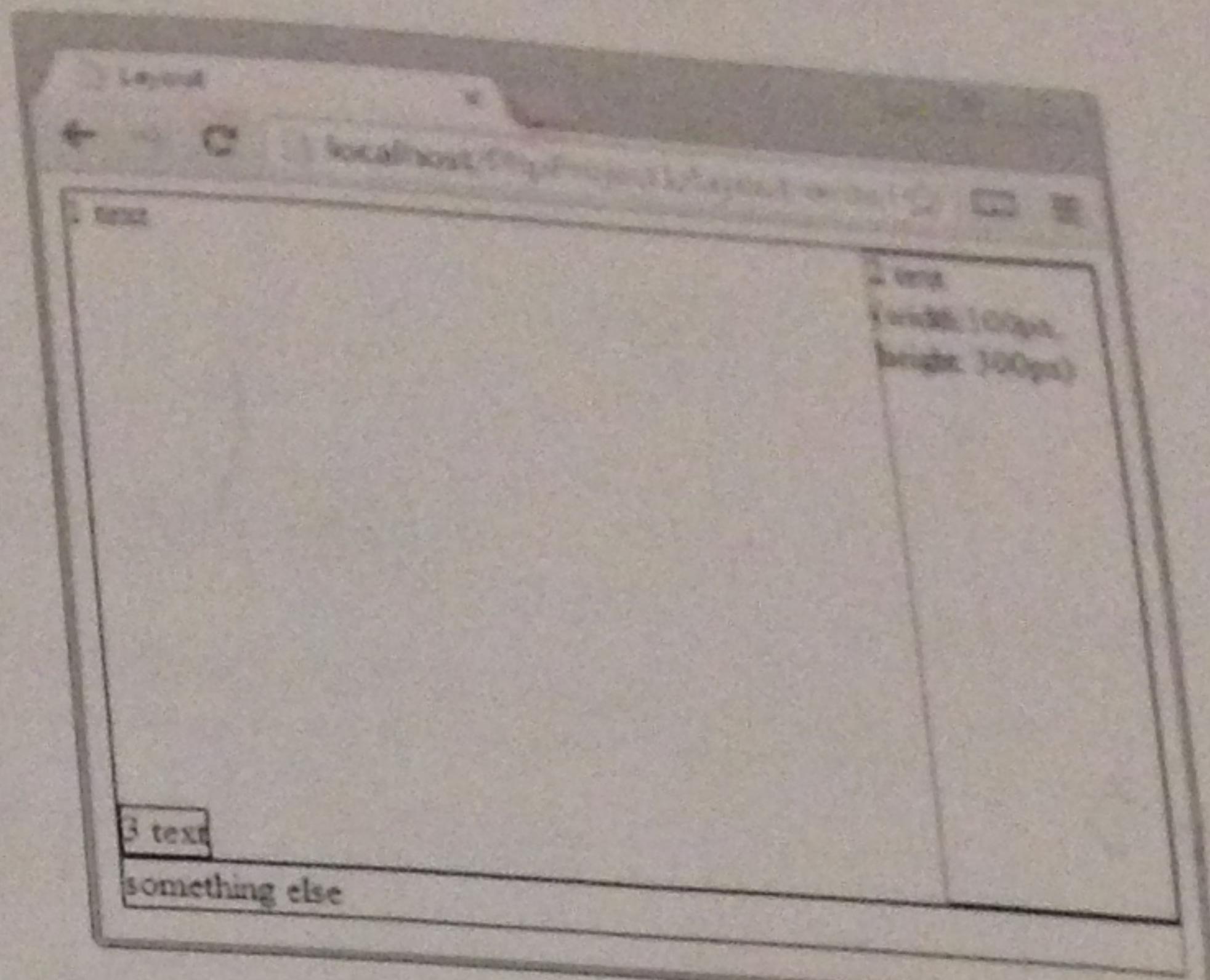
div#one {
    text-align: left;
    top: 0px;
    left: 0px;
    <-- are flow relative
}

div#two {
    position: absolute;
    width: 100px;
    height: 300px;
    <-- float
}

div#three {
    position: absolute;
    left: 10px; bottom: 0px;
}

div#some {
    width: 100%; }
  
```

+25



- 1.5

9. [8 pts] Draw the layout for the following HTML in the 4 boxes on the next page, based on the scenarios shown in the table on below

```

<body>
    <div id="one">
        1 text
        <div id="two">
            2 text
            <div id="three">
                3 text
            </div>
        </div>
    </div>
    <div id="some">some <span>class="thing">thing</span> else </div>
</body>
  
```

<p>/* No CSS */</p> <p>1 text 2 text 3 text</p>	<p>#one { float: right; } #two { clear: right; }</p>
<p>#one { position: relative; top: 100px; height: 100px; }</p> <p>#two { position: relative; left: 100px; }</p>	<p>#one { position: relative; height: 100px; } #two { position: fixed; bottom: 0px; right: 0px; } #three{ position: absolute; bottom: 50px; right: 50px; }</p>

1 Text
something
2 Text
else

1 Text

2 Text

3 Text something else

+3

0.5

2 Text
3 Text
something else

0.5

1 Text

3 Text

1 Text

3 Text

-5

2 Text

10. Based on the CSS below (applied to the html from last page) what is

a. [1 pt] The width of `div#one` starting from its left border, ending at its right border

0.9

530 px + 2 = 532

-0.8

b. [2 pts] The height from the top border of `div#one` to bottom border of `div#some`?

250 px ?

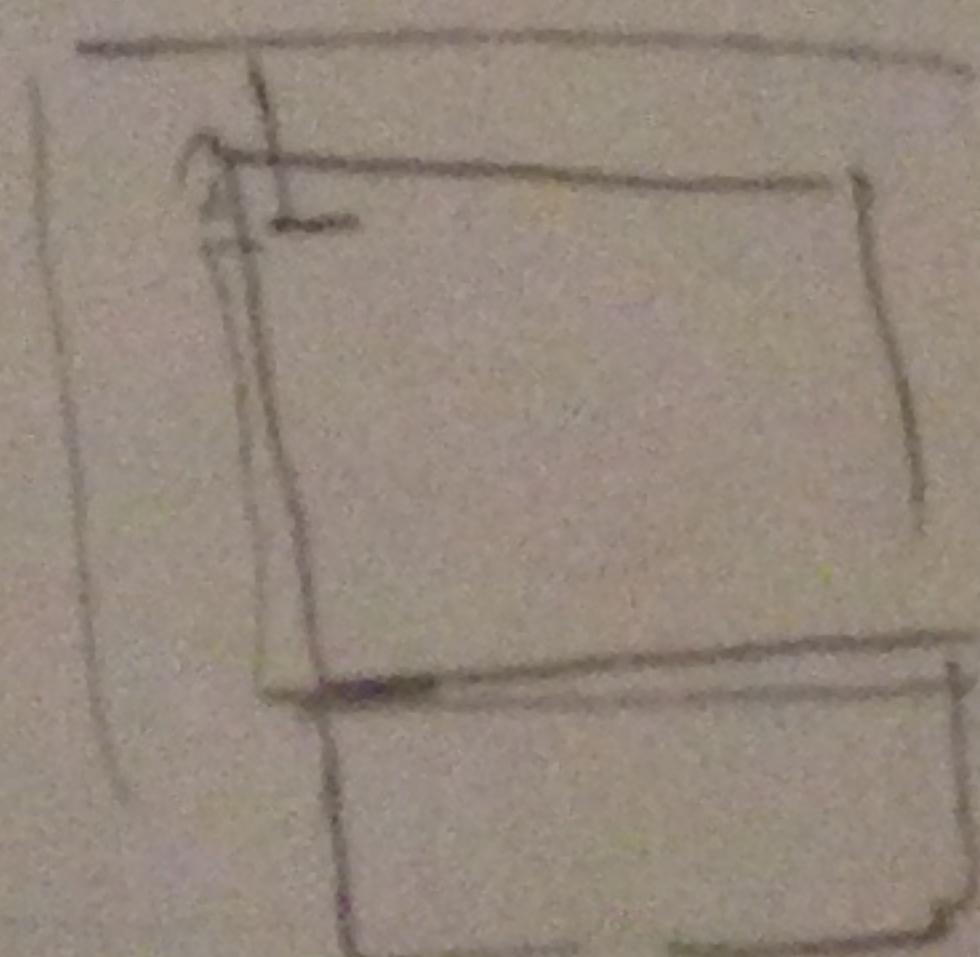
-2

```
div { border: 1px solid black; }
#some { width: 250px; height: 50px; padding: 30px; margin: 50px; margin-top: 60px; }
#one {
  width: 500px;
  height: 100px;
  padding-left: 10px;
  padding-right: 20px;
  padding-top: 30px;
  padding-bottom: 40px;
  margin: 50px;
}
```

500
30
30
30
30
500
+30
1

-div L 100 px
30
45
50
30

100
50
30
40
30



PHP [15 pts]

11. [2 pts] What is the result of the following PHP expression?
"5" + (3.3 * 2). "2" / 4

5 + 6.6 - 0.5
11.6 - 0.5
11.60.5

+2 11.60.5

12. [2 pts] In PHP, what is the difference between include() and require()?

include() - Insert an entire content of a given file into php
as require() - use to get a required section. not the entire content.

~~content~~ -)

13. [2 pts] What does the global keyword do in PHP?

- it shows that any thing with the global keyword is global to the elements of the class. for instance a global variable is a variable not specific to a single function rather for any thing inside a given class. -2

14. [2 pts] Why do you often see exit(0) after the header() function?

+2 exit(0) - will help to exit from a current site and redirect us to the header().

15. [7 pts] Write a PHP function called myGrep that takes two arguments, a filename, and a regular expression. Your function should open the file, and print every line in the file that matches the regular expression.

<?php
function myGrep ("\$Myfile.text", "\$", "\$") {
 \$Str = file_get_content_read ("\$Myfile");
 for each (\$Myfile as \$file) {
 if (strpos (\$file) == ",");
 print strpos (\$file);
 }
}

- 3/5

+2

?2

Forms [15 pts]

16. [2 pts] Does a form default to GET or POST if we leave off the method attribute?
 No, we have to specify it. -2

17. [2 pts] To what URL does a form submit if we leave off the action attribute?
 It doesn't submit unless we specify the url. -2

18. [2 pts] What does the <label> tag do?

+2 It is used to enable to use the text (name) of a button (checkbox and radio) to select the button while clicking, then click - if we tap on the word click it will check the button.

19. [2 pts] How do you group radio buttons so that only one can be selected at a time?
 +2 We grouped them by name, meaning we gave the same name for each button by input type="radio" name="OK" ... Yes
input type="radio" name="OK" ... No

20. [7 pts] Write HTML to create a form similar to what is shown in the screenshot (don't worry about the CSS layout). For full credit if your form has the grey text inside the input fields, and uses the <label> tag.

```
<!DOCTYPE html>
<html>
<body>
<fieldset>
<legend> Contact Us: </legend>
```

Name: <input type="text" placeholder="Name" />
 Email: <input type="text" placeholder="Email Address" />
 Confirm: <input type="text" placeholder="Email Address" />
 Comment: <input type="text" rows="8" cols="30" />

<label>

<input type="checkbox" name="checked" value="Add me to your mailing list" />

</label>

<input type="submit" value="Submit" />

</fieldset>

</body>

</html>

Databases and SQL [10 pts]

21. [2 pts] Is the following code vulnerable to SQL injection?

```
$db = new PDO("mysql:dbname=world;host=localhost", "traveler", "pactemybag");
$stmt = $db->prepare("SELECT * FROM country WHERE name = '$country'");
$stmt->execute();
```

NO use of the prepare statement with a quoted name. -2

22. Write PHP code for receiving the form submission from the previous page. Your code should work with the contact table (in the contacts database) shown below.

| Field | Type | Null | Key | Default | Extra |
|----------|--------------|------|-----|---------|----------------|
| id | int(11) | NO | PRI | NULL | auto_increment |
| name | varchar(255) | YES | | NULL | |
| email | varchar(255) | YES | | NULL | |
| comment | text | YES | | NULL | |
| maillist | varchar(3) | YES | | NULL | |
| status | varchar(50) | YES | | NULL | |

- [4 pts] Check that the email address submitted doesn't already have a row in the db which has status 'unread'. If it does you should redirect to 'pleasewait.php'
- [4 pts] Insert the values into the 'contact' table with status 'unread', and redirect to the 'thankyou.php' page

② \$db = new PDO(" - - - - - ")

\$stmt = \$db->prepare ("SELECT email FROM ContactTable WHERE status = "unread" AND email = ?")

+3.5 \$stmt->execute();

if (!\$stmt = null)

header ("Location: pleasewait.php");
exit();

-0.5

③ INSERT INTO ContactTable Contact (status + "unread") X

header ("Location: thank you.php");
exit();

+1

-3

Databases and SQL [10 pts]

21. [2 pts] Is the following code vulnerable to SQL injection?

```
$db = new PDO("mysql:dbname=world;host=localhost", "traveler", "pactemybag");
$stmt = $db->prepare("SELECT * FROM country WHERE name = '$country'");
$stmt->execute();
```

NO use of the prepare statement with a quoted name. -2

22. Write PHP code for receiving the form submission from the previous page. Your code should work with the contact table (in the contacts database) shown below.

| Field | Type | Null | Key | Default | Extra |
|----------|--------------|------|-----|---------|----------------|
| id | int(11) | NO | PRI | NULL | auto_increment |
| name | varchar(255) | YES | | NULL | |
| email | varchar(255) | YES | | NULL | |
| comment | text | YES | | NULL | |
| maillist | varchar(3) | YES | | NULL | |
| status | varchar(50) | YES | | NULL | |

- [4 pts] Check that the email address submitted doesn't already have a row in the db which has status 'unread'. If it does you should redirect to 'pleasewait.php'
- [4 pts] Insert the values into the 'contact' table with status 'unread', and redirect to the 'thankyou.php' page

② \$db = new PDO(" - - - - - ")

\$stmt = \$db->prepare ("SELECT email FROM ContactTable WHERE status = "unread" AND email = ?")

+3.5 \$stmt->execute();

if (!\$stmt = null)

header ("Location: pleasewait.php");
exit();

-0.5

③ INSERT INTO ContactTable Contact (status + "unread") X

header ("Location: thank you.php");
exit();

+1

-3

Cookies and Sessions [10 pts]

23. [2 pts] How do websites know who I am when I come back to them a few weeks later?

- +1
- based on the session ID: when we first browse we will start a session and then after whenever we come back it will recognize us based on our unique session ID; unless our session expires.

24. [2 pts] What are 3rd party cookies?

- +2
- are cookies which are usually send by a commercial companies they are 3rd party because the company send them when we are looking a website other than the company, then when we visit an other website the our browser send cookies to the company

25. [2 pts] Timeout

a. Why do sessions time out?

- +1.75
- because there will be different changes in the website and the use of the old session is not useful by sale; if a company finish its clearance and did not have anymore sale the session who stored individual data about their browser habit: on the sale items will not be useful anymore

b. What is the default timeout length?

unless it is stated session_start('shorttime'); it depends as long as the browser closed.

-0.25

26. [2 pts] Say you've been using a persistent cookie with the name 'tracker' in PHP, but want to get rid of it. Write some PHP code to remove the cookie.

Set cookie ("tracker", "", time - 1);

+2 if we want to delete cookie we can set the timeout less than before current time

27. [2 pts] Write PHP code to give the client a new PHPSESSID:

Session_start();

Session_id_request(true);

Session_start();

Best Practices [10 pts]

28. [2 pts] Cross Site Request Forgery (CSRF)

a. What is CSRF?

it is Forgery attack in which some man-in-the-middle system and try to be in the middle of the either user and server. They are forged website and send it to the user than get all information to invoke the browser in

b. How can we defend against it?

✓ through forum talks

↳ we can provide attack to the user in a transaction

+2

29. [2 pt] Describe the following terms:

c. Hashing: changes the real texture

- i.e. Changing the password through adding another random numbers. It changes using different techniques
hash code - generate a code for us.

d. Salt

Adding some random words on the password, so that then we can hash it to prevent Dictionary attack

+2

30. [2 pts] Write a regular expression to match Iowa license plates, example: 032 TCT

+1.75 / \d{3} \s{1} \d{2} [A-Z]{3}

-0.25

31. [2 pts] What do the following regular expressions match / mean?

e. /So+lame/

match with one or more occurrence of So - it can be only O or S or just the both o

+1.5

f. /(never)* gonna give you up/

matches with zero or more occurrence of never in any other expression

-0.5

32. [2 pts] Describe the main difference between the model1 and model2 architectures:

W

Model 1

Model 2

+2

- process in a single file

- different Concern in a different file
- MVC

Name: _____

StudentID: _____

SCI [5 pts]

+5

33. [5 pts] Relate anything from the subject matter of these two weeks to the science of creative intelligence. Your point should be original (not copying one of my points) and should clearly show the connection between the discipline and SCI.

- In all our last two week class we have discussed a lot of point. One of the major point is about PHP. which is a server side scripting language. The reason why we choose PHP other than other scripting language is because it's compatible (supported by web server) available (available by web server) simple (fairly syntax) and well documented. like wise according to Maharishi even though there are a lot of meditation techniques Transcendental meditation is unique because it is simple (easy to learn) & spontaneous (compatible can be practiced by any one from anywhere), available (natural and effortless) as well as well profed or have been practiced for thousand years.