Web 1 (Winter 201X)

**FINAL EXAM**

Instructor: YYYYYYY

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Time allowed: 120 minutes.

**Read Carefully:**

1. Enter your name on this sheet. Be sure to consume this exam upon completion.

2. Multiple Choice Section: answer using the computer OCR card.

3. You must use a pencil for the computer OCR card

4. Short Answer Section: answer all questions in the space provided on the exam.

**Marks:**

Multiple Choice Section: / 50

Short Answer Section: / 20 (each short answer is worth 5 marks)

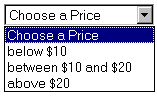
Long Answer Question: / 30

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total: / 100 Marks

## Multiple Choice: Choose best answer (50/100)

# Answer these questions on supplied computer OCR sheet

1. Which of the following statements is *true*?
   1. COMP 1511 was taught by Bill Gates in disguise.
   2. We created web pages using Adobe Excel.
   3. We used the 960 CSS Grid system in assignment #2.
   4. We used Javascript in Assignment #4.
   5. This is a difficult question.
2. What is the correct order for table tags
   1. <table><td><tr>
   2. <tr><td>
   3. <table><tr><td></tr></td></table>
   4. <table><tr><td></td></tr></table>
   5. <table><td><tr></tr></td></table>
3. Which of the following HTML — form element pairs is improperly matched:
   1. <input type=text>
   2. <input type=radio>
   3. < select>
   4. All of the above are correct
   5. None of the above are correct
4. To make your web page available to the rest of the world the page must:
   1. pass the W3C XHTML validator
   2. be transferred to a publically accessible web server
   3. have a main page named index.html
   4. use CSS
   5. be registered with Google
5. Using relative referencing, what syntax would you use to reference a file called **image.gif** which is in the same folder (named **pass2**) as the file you are currently working on?
   1. <img src="image/pass2.gif">
   2. <img src="pass2/image.gif">
   3. <img src="/pass2/image.gif">
   4. <img src="image.gif">
   5. <img src="/image.gif">
6. Javascript is
   1. A client-side scripting language that is interpreted by the browser
   2. A server-side scripting language that is executed by the server
   3. A language for creating self-contained, Windows-only programs
   4. A programming language used solely to create apps that run on Apple’s iPad
   5. All of the above are true
7. Which is the generally preferred method for consistently using styles
   1. Defined in-line (within tag)
   2. embedded within HTML
   3. imported from external file
   4. linked from external file
   5. It doesn't make any difference, all are equally-preferred.
8. When an image is resized in Photoshop,
   1. it is converted to a vector image
   2. image quality is reduced
   3. image quality is unaffected
   4. image quality is improved
   5. Photoshop does not resize images
9. Image pixel depth refers to
   1. the number of bits used to represent the color information for each pixel in the image
   2. the number of colors that can be displayed on a computer monitor
   3. the number of color halftone dots per inch
   4. none of the above
   5. Both a) and b) are correct
10. \_\_\_\_\_\_\_\_\_\_\_\_\_ colors are possible with 24-bit color
    1. 65536
    2. 16 million
    3. 24 million
    4. 256
    5. An infinite
11. For optimal usability, the maximum time it should take to download a page from the web is
    1. One second
    2. Three seconds
    3. Ten seconds
    4. Thirty seconds
    5. One minute
12. The \_\_\_\_\_\_ element is used to define column headings in a table.
    1. caption
    2. td
    3. th
    4. head
    5. headings
13. A GIF image that has only web-safe colors has
    1. Exactly 216 colors
    2. Exactly 256 colors
    3. No more than 216 colors
    4. No more than 256 colors
    5. No more than 16.7 million colors
14. A \_\_\_\_\_\_\_\_\_\_\_\_\_ image is one composed of mathematically-defined objects.
    1. bitmap
    2. raster
    3. boring
    4. vector
    5. RGB
15. \_\_\_\_\_\_\_\_\_\_\_\_\_ is the range of colours that a colour system can display or print.
    1. Gamut
    2. Resolution
    3. Pixel depth
    4. RGB
    5. HSB
16. With PHP you can:
    1. create dynamic web content
    2. read and write to databases or files on the server
    3. animate an element on your page directly as a consequence of user actions
    4. both a and b
    5. none of the above
17. Which of the following is not an activity you can perform in Photoshop?
    1. Crop an image
    2. Add shadows
    3. Resize an image
    4. Draw rectangles
    5. All of the above are activities you can perform in Photoshop
18. In a web site, a global navigation system
    1. provides access to first-level section pages
    2. provides access to pages within a section of the site
    3. is used for non-critical links
    4. is available in all pages
    5. Both a) and d) are true
19. In an hierarchical organizational structure, it is better to have
    1. More breadth, less depth
    2. More depth, less breadth
    3. Less depth, less breadth
    4. Tastes good, less filling
    5. none of the above
20. The most important goal in web design is
    1. impressive graphics
    2. site usability
    3. interesting links
    4. attractive home page
    5. use of metaphors
21. Which of the following is *not* a factor in the usability of a web site
    1. Navigation system
    2. Organizational system
    3. Response time
    4. Attractivess
    5. All of the above are factors
22. Which one of the following is the correct PHP to output a message to a web page:
    1. Echo "Hello";
    2. echo "hello"
    3. echo 'hello';
    4. echo hello;
    5. none of the above
23. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organization scheme is one which uses verbs (action words)
    1. topical
    2. functional
    3. metaphoric
    4. audience-specific
    5. none of the above
24. On a web page, a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ explicitly summarizes what the site does or is about.
    1. logo
    2. navigation system
    3. convention
    4. breadcrumb
    5. tagline
25. The character that is used to append a query string to the URL is
    1. ?
    2. &
    3. =
    4. +
    5. //
26. Which of the following is true with respect to the <form> tag?
    1. While you can have several <form> ... </form> in a page, they cannot be nested
    2. The name= attribute is only necessary if there is more than one form in a page
    3. The action= attribute specifies the URL of the server-side script that will process the form
    4. The method= attribute specifies how the information in the form will be transmitted to the server
    5. All of the above are true statements
27. In the style code at the right,  
     ‘h2’ is called a
    1. Class
    2. Selector
    3. Property
    4. Value

h2 { color: aqua; }

p {

font-size: 16pt;

font-face: Arial, sans-serif;

}

* 1. ID

1. In the style code at the right,  
    ‘Arial’ is called a
   1. Class
   2. Selector
   3. Property
   4. Value
   5. ID
2. Which of the following is not part of the CSS box element/model.
   1. Background color or image
   2. padding
   3. margins
   4. borders
   5. all of the above are part of the CSS box element
3. The factors determining web site usability would be response time, organization system and
   1. Color scheme
   2. Balance
   3. Unity
   4. White space
   5. Navigation system

For the following question use the HTML code below:

<h1>Pearson Education</h1>

<h2>Book Rep System</h2>

1. To position the “Book Rep System” text to the right of the “Pearson Education” text we would use:
   1. #h2 { float: right; }
   2. h2 { float: right; }
   3. h2 { position: right; }
   4. h2 { position: relative; left: -200px; }
   5. #h2 { position: right; }
2. Which statement correctly retrieves a field named txtName from a form that uses the post method?
   1. $\_POST["txtName"]
   2. $\_GET[txtName"]
   3. $\_GET["txtName"]
   4. $\_POST[txtName]
   5. $\_SESSION["txtName"]
3. The \_\_\_\_\_\_\_\_\_\_\_ selector is used to target a rule to a specific instance of an element.
   1. id
   2. class
   3. block
   4. html
   5. external
4. Which of the following will not increase design consistency within a site:
   1. Using a common external style sheet on each page
   2. Using a grid to design each page
   3. Limited common colour scheme
   4. All of the above
   5. None of the above
5. Which one of the following is the correct PHP command to set a session named count with a value of 3:
   1. session("count") = 3;
   2. $\_SESSION("count") = 3;
   3. $session[count] = 3;
   4. $\_SESSION[3] = count;
   5. $\_SESSION["count"] = 3;

…<a href="index.php?id=44&name=yes">click</a>…

*source.htm*

…<%

if ($\_GET["name"] == "yes")

if ($\_GET["44"] == "id")

echo "one";

else

echo "two";

else

if ($\_GET["id"] == 44)

echo "three";

else

echo "four";

%>…

*index.php*

1. If the above file *index.php* was called by *source.htm* in the manner illustrated in the above box, the code fragment illustrated above would display
   1. one
   2. two
   3. three
   4. four
   5. five
2. You have an image that you wish to place on a web page. You want the background color of the image to be transparent. Which file format would be best if we wish to have an anti-aliased edge between the transparent and non-transparent part of the image?
   1. png
   2. gif
   3. jpg
   4. fla
   5. psd

<form name="form1" method="post"

action="reply.php">

<input type="text" name="FirstName">

<input type="hidden" name="information"

value="secret message">

<input type="text" name="LastName">

<input type="submit" name="Submit" value="go">

</form>

<%php

$lName= $\_POST["LastName"];

$fName = $\_POST["FirstName"];

$message = $\_POST["information"];

echo $fName . "&nbsp;"

echo $lName . "&nbsp;"

echo $message . "&nbsp;"

%>



Browser screen

reply.php

Form.htm

1. After the user clicks on ‘go’ on the browser screen, what will be displayed?

a) John Smith secret message

b) John Smith

c) Smith secret message

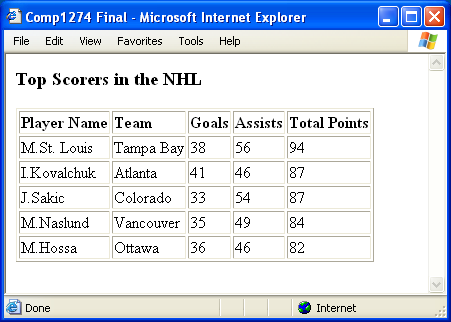
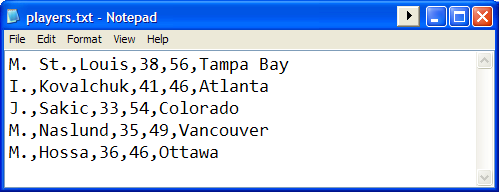
d) John secret message

e) Smith John secret message

1. You would like to conduct a survey and ask your web page visitors to indicate the computer operating systems that they use. Each visitor could use more than one computer operating system. Select the form element that is best to use for this purpose.
   1. Check box
   2. Radio button
   3. Text box
   4. Drop-down select list
   5. All of the above are equally good
2. Select the tag used to visually group a number of form elements.
   1. <group>
   2. <form>
   3. <label>
   4. <input>
   5. <fieldset>
3. How would you define an internal bookmark or named reference at the top of a page, called “top”?
   1. <a name="top"></a>
   2. <a bookmark="top"></a>
   3. <a href="#top"></a>
   4. <a href="top"></a>
   5. <a bookmark="#top"></a>
4. Which of the following tags is **NOT** a container tag?
   1. <p>
   2. <span>
   3. <div>
   4. <img>
   5. <table>
5. Which of the following will make an element not appear in the browser window?
   1. display: block;
   2. display: none;
   3. display: invisible;
   4. display: 0;
   5. This cannot be done in CSS
6. Which of the following configures a margin for an element with the following values: left margin 20 pixels, right margin 50 pixels, and a top and bottom margin of 0 pixels?
   1. margin: 20px 50px 0 0;
   2. margin: 20px 50px 0px 0px;
   3. margin: 0 0 20px 50px;
   4. margin: 0 20px 0 50px;
   5. margin: 0 50px 0 20px;
7. Which of the following configures a class called sidebar to float to the right?
   1. sidebar: { float: right; }
   2. sidebar: { right: float; }
   3. .sidebar: { float: right; }
   4. #sidebar: { float: right; }
   5. .sidebar: { right: float; }
8. The \_\_\_\_\_\_\_\_\_\_\_\_\_ tag is used to associate a web page with an external style sheet.
   1. <a>
   2. <head>
   3. <style>
   4. <link>
   5. <script>
9. Which of the following styles will correctly set the background image of an element with an id="logo" to the file logo.gif?
   1. logo: { background: url(logo.gif) }
   2. .logo: { background: logo.gif }
   3. .logo: { background-image: logo.gif }
   4. #logo: { background-image: url(logo.gif) }
   5. #logo: { background: logo.gif }
10. Video \_\_\_\_\_\_\_\_\_\_\_\_\_ refers to software that enables video compression/decompression.
    1. codex
    2. file
    3. streaming
    4. Flash
    5. container
11. A \_\_\_\_\_\_\_\_\_\_\_\_\_ refers to a link that shows the user where she is in the site hierarchy.
    1. Global navigation
    2. Secondary navigation
    3. Breadcrumb
    4. Page title
    5. Footer
12. Which of the following tags can be found in the <head> section
    1. <meta>
    2. <form>
    3. <link>
    4. all of the above
    5. Both a) and c)

## Short Answer: Write 3 to 6 sentences (20/100)

1. Write a function in php which takes two parameters and **returns** (not echos) the HTML representing a link with the destination URL and link text reflecting the parameters passed in.
2. What is a global navigation system? What is a local navigation system?
3. What are the factors that affect a page's response time?
4. What are the four ways to maintain state information from page to page in PHP?
5. Write the **complete** PHP page that will generate the outcome shown above. The data comes from a text file named players.txt, whose content is shown below. Notice that that is indeed an html table you will need to generate. Don’t worry about any styling. Notice that you will have to **calculate** total points for each player (goals+assists) as well as the sum total number of points for all the players (worth 20).



Sum Total # Points: 434

1. Create a two page website that has: [worth 10 marks]
   1. An HTML page named questionSix.html that has a form that allows users to enter their name in a textbox, their province from a drop-down list (containing AB, BC, and SK as the options), and a numeric rating from 1-5 via radio buttons.
   2. A php page named process.php that processes the form and displays the user’s entered data (on next page).

*Use this space for answering the long answer question.*

questionSix.html

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html>

<head><title>Question Six Form</title></head>

<body>

</body>

</html>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html>

<head><title>Question Six Processor</title></head>

<body>

</body>

</html>

process.php