**COMP 3540 Advanced Web Design and Programming**

Midterm Exam I – Winter 2016

Student Name: Student Number:

1. (18 marks) Fill in the blanks in each of the following.
2. The purpose of HTML is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. The purpose of CSS is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. The purpose of DOM is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. The purpose of JavaScript is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. The purpose of PHP is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in start tags provide additional information about the HTML elements.
8. In CSS, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are patterns used to select the elements(s) you want to style. (Do not use ‘rules’ as the answer.)
9. The HTML \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ element and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ element can be used as a container for other HTML elements.
10. The four positioning styles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
11. The CSS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ property specifies the type of box used for an HTML element.
12. The most popular software architecture for web applications is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
13. The four components in the box model are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
14. The CSS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ property the stack order of an HTML element.
15. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ method accesses the first element with the specified id.
16. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ method attaches an event handler.
17. The PHP \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ function determines whether a variable is empty.
18. The PHP \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ function/statement includes and evaluates the specified file.
19. PHP \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is widely used to collect form data after submitting an HTML form with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ method.
20. (3 marks) Write the HTML code that displays ‘Quick links’ at the top right corner always.
21. (3 marks) Complete the following code that registers the event handler, show\_signin\_box.

window.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ('load', \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_() {

document.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_('menu-signin').\_\_\_\_\_\_\_\_\_\_\_\_\_\_('click',

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_); });

function show\_signin\_box() {

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.getElementById('id-signin').display = 'block'; }

1. (8 marks) Complete the following HTML/CSS/JavaScript code that
   * shows a div box over any other elements when the mouse moves over a button, and
   * hides the div box when the mouse moves out from the button.

Initially the div box should not be displayed. You also need to show how to register the event handler using the W3C model, not other models.

<div style="border:1px solid black; >

This is a box to be displayed.

</div>

<button type="button" style='left: 5px; >

Let’s hide the box!

</button>

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<script>

</script>

1. (4 marks) Complete the following HTML/CSS code to display the <p> element at the vertical and horizontal center within a div box.

<div style="width:800px; height:500px; border:1px solid black;

>

<p style="width:200px; height:100px; border:1px solid black; >

This is the paragraph that has to be display at the vertical and

horizontal center within the outer div box.

</p>

</div>

1. (4 marks) Write the HTML code for ‘SignIn’ that
   * reads username and password, and
   * submits them to “index.php” using the ‘get’ method.

The code should include another input named ‘command’ that is not visible to the user and specifies that the input values are used for ‘SignIn’.

<html><body>

</body></html>

1. (6 marks) Write the PHP file, index.php, that
   * checks the user input ‘command’,
   * displays ‘start.php’ and exits, when the command value is empty,
   * displays ‘main.php’ when the command value is ‘signin’ and another user input ‘username’ is ‘john’,
   * displays ‘start.php’ when the command value is ‘signin’ and another user input ‘username’ is NOT ‘john’,
   * displays ‘start.php’ when the command values is ‘join’ or ‘forgotpassword’.

You should use at least one if-else statement and one switch statement.