**COMP 3540 Advanced Web Design and Programming**

Midterm Exam II – Fall 2017

Student Name: Student Number:

1. (7 marks) Fill in the blanks in each of the followings.
2. MVC stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a way to store information (in variables) to be used across multiple pages.
4. The PHP \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ array is used to store session variables.
5. RWD stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. The Bootstrap’s grid system allows up to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ columns across the page.
7. The jQuery \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ function is used to check if all the document is completely loaded.
8. The jQuery \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ function specifies a function to run for each matched element.
9. (6 marks) Complete the following code of ‘controller.php,’ which includes the following activities.

* Read ‘username’ and ‘password’ sent from the client, using the POST method.
* Use the ‘is\_valid()’ function defined in model.php to check the validity of ‘username’ and ‘password’. This function returns TRUE if the two arguments passed to the function are valid.
* If they are valid, then include ‘main\_page.php’.
* Otherwise, include ‘start\_page.php’.
* Note. You should include all the proper files at proper places.

<?php

Require(‘model.php’);

$username = $\_POST[‘username’];

$password = $\_POST[‘password’];

If(is\_valid($username,$password)){

Include(‘main\_page.php’);

}else{

Include(‘startpage.php’);

}

?>

1. (2 marks) Write the PHP code that starts a session and saves a session variable with
   * Name: ‘username’
   * Value: The value is stored in $name.
2. (3 marks) Form submission result can be displayed in an iframe. In some cases, it is necessary to check if the iframe is fully loaded. Complete the following code that shows an alert window when an iframe is fully loaded. Note that the load event is triggered on an object when the object is fully loaded.

<form method='get' action='iframe-exercise.php' target='tr4-iframe'>

<input type='text' name='command'>

<input type=’Submit’ value="Submit">

</form>

<br>

<iframe id='tr4f' name='tr4-iframe' width='400px' height='100px'> </iframe>

<script>

$(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_).\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, function() {

alert('Fully loaded!');

});

</script>

1. (3 marks) Write the Bootstrap-HTML code that uses 2 columns within a row that is included in a container. The sizes of 2 columns are 4, and 8 respectively. You do not have to include anything in the columns.

<div class=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_>

<div \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_>

</div>

</div>

1. (6 marks) Complete the following code that
   * When the button of id ‘tr6’ is clicked, selects all HTML elements that have ‘comp’ as the name attribute value, i.e., name=‘comp’, and
   * For each selected element, change its background color with ‘SkyBlue’.
   * Note that you should use jQuery.

$(document).ready(function() {

$(‘#tr6’).click(function() {

$(‘[name = “comp”]’).each(function() {

$(this).css(‘background’,’skyblue’);

});

});

});

1. (8 marks) Complete the following PHP function that

* Connects to your MySQL DB,
* Selects all the usernames from the ‘Users’ table, which start with ‘a’,
* Constructs the HTML table code with the retrieved usernames, and
* Returns the table code.
* Note that the ‘Users’ table has two columns ‘Username’ and ‘Password’.
* Note that the LIKE operator can be used with ‘a%’ for the username selection.

function get\_usernames\_starting\_with\_a()

{

$str = '<table>';

$conn = mysqli\_\_\_\_\_\_\_\_\_\_\_(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_);

$str = $str . '</table>';

return $str;

}