Student ID: 9999 Exam: 7434

NOTE: It is my policy to give a failing grade in the course to any student who either gives or receives aid on any exam or quiz.

## INSTRUCTIONS: Answer all questions in your examination booklet, *in sequence, please*. Unless otherwise indicated, all questions count equally.

- 1. What is the purpose of the PHP code we put at the top of each web page?
- 2. What is one reason for putting CSS rules and XHTML code in separate files?
- 3. Why was a CSS rule put in the XHTML code file for the picture gallery project?
- 4. Why should JavaScript code and XHTML code be put in separate files?
- 5. What is the *aspect ratio* of an image?
- 6. When preparing images for the picture gallery you were told what size *canvas* to use. What is a canvas, and what was the consequence of using a fixed-size canvas for all the pictures, regardless of their aspect ratios?
- 7. What is a reasonable *resolution* for images on the web?
- 8. What is the consequence of using a larger resolution than necessary?
- 9. What is the reason for using a gradient that has transparent pixels on one end?
- 10. What is the value of the background-repeat property that will cause a background image to be drawn repeatedly horizontally but not vertically?
- 11. What is the *viewport* of a web page?
- 12. Which of the following features of the viewport can be controlled using XHTML and/or CSS: (a) *width*, (b) *height*, (c) *position on the screen*.

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<div id="header"> ... </div>
<div id="content"> ... </div>
<div id="footer"> ... </div>
</body>
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- 14. How can you use CSS to change the color of a link after the user has visited it?
- 15. Normally, images are shown as inline elements. How can you use CSS to make them start on a new line?
- 16. What is an *em*, and what would be a reason for using *ems* for a web page?
- 17. Write a snippet of XHTML that will produce a picture that a user can click on to go to another web page. Use any names you like for the picture file and the other web page.
- 18. What file format would be better for this picture, JPEG or PNG, and why?



- 19. What is *lorem ipsum*?
- 20. How can you use CSS to make a <div> (or any element, really) move to the right side of the web page, with the text that follows flowing around the top, left, and bottom of the <div>?
- 21. What is *Verdana* and why is it useful?
- 22. What is *Sans-Serif* and why is it important?
- 23. (a) What is *whitespace*, (b) when would it not be white, and (c) how could you use CSS to add some to a web page?
- 24. What is the difference between *get* and *post*, and which is which?

- 25. What is the *action* attribute of a form used for?
- 26. What is the difference between checkboxes and radio buttons?
- What attribute must radio buttons have in common in order to work as a radio group? 27.
- 28. What is the difference between an <input type="text"> tag and a <textarea> tag?
- 29 . What is the <fieldset> tag used for?
- 30. Write a snippet of XHTML that will generate a checkbox and its associated label. Include the attributes needed to link the label to the checkbox and to enable the server-side script to find out whether the checkbox was checked or not when the form is submitted.
- 31. Write the XHTML tags to create a table with two rows and three columns, except the second row is to have its middle and right columns merged together.
- 32. (a) Tell what the following JavaScript code does. (b) Tell when the first and second equal signs are executed, and (c) tell when the anonymous (unnamed) and validateForm functions are executed. *Note: this question counts twice as much as the others.*

window.onload = function() { document.getElementById("theForm").onload = validateForm; }