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| *All other questions are 1 point each, except where indicated otherwise.* |

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| 1. A(n) \_\_\_\_\_ is any device, such as a computer, tablet, or smartphone, connected to a network.​   |  |  |  | | --- | --- | --- | |  | a. | ​data packet | |  | b. | ​Uniform Resource Locator (URL) | |  | c. | ​wireframe | |  | d. | ​node | |

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| 2. ​A \_\_\_\_\_ is a host computer that stores resources and files for websites.   |  |  |  | | --- | --- | --- | |  | a. | ​client | |  | b. | ​server | |  | c. | ​modulator | |  | d. | ​demodulator | |

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| 3. ​A \_\_\_\_\_ is a set of rules that defines how a client workstation can communicate with a server.   |  |  |  | | --- | --- | --- | |  | a. | ​proxy | |  | b. | ​jQuery | |  | c. | ​wireframe | |  | d. | ​protocol | |

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| 4. ​\_\_\_\_\_ is a set of rules for exchanging text, graphic, sound, video, and other multimedia files on the web.   |  |  |  | | --- | --- | --- | |  | a. | ​Network Time Protocol (NTP) | |  | b. | ​Gross Data Transfer Protocol (GDTP) | |  | c. | ​Hypertext Transfer Protocol (HTTP) | |  | d. | ​Uniform Resources Protocol (USP) | |

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| 5. A \_\_\_\_\_ is an area of the Internet a particular organization or person manages.   |  |  |  | | --- | --- | --- | |  | a. | ​wireframe | |  | b. | ​proxy | |  | c. | ​domain | |  | d. | ​protocol | |

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| 6. A \_\_\_\_\_ is a planning tool that lists or displays all the pages on a website and indicates how they are related to each other.​   |  |  |  | | --- | --- | --- | |  | a. | ​Search Engine Optimizer (SEO) | |  | b. | ​site map | |  | c. | ​wireframe | |  | d. | ​Document Object Model (DOM) | |

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| *Indicate whether the statement is true or false.* |

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| 7. A file transfer protocol (FTP) provides certain mechanisms to view a webpage.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| 8. Hypertext Markup Language (HTML) combines tags and descriptive attributes that define how a document should appear in a web browser.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| 9. Hypertext Markup Language (HTML) browsers ignore spaces that exist between the tags in a HTML document.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| *Indicate the answer choice that best completes the statement or answers the question.* |

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| 10. A \_\_\_\_\_ ensures that the webpages in a website share a standard layout.​   |  |  |  | | --- | --- | --- | |  | a. | ​site index | |  | b. | ​template | |  | c. | ​flowchart | |  | d. | ​wireframe | |

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| 11. A \_\_\_\_\_ tag is used to insert a line break in a Hypertext Markup Language (HTML) document.​   |  |  |  | | --- | --- | --- | |  | a. | ​<hr> | |  | b. | ​<div> | |  | c. | ​<br> | |  | d. | ​<p> | |

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| *Indicate whether the statement is true or false.* |

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| 12. Any text editor can be used to create a Hypertext Markup Language (HTML) template.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| *Indicate the answer choice that best completes the statement or answers the question.* |

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| 13. ​Using \_\_\_\_\_, a website visitor can move from one page to another, view a page on another website, start a new email message, download a file, or make a phone call from a mobile device.   |  |  |  | | --- | --- | --- | |  | a. | ​indices | |  | b. | ​key values | |  | c. | ​attributes | |  | d. | ​hyperlinks | |

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| 14. Include the \_\_\_\_\_ attribute in a starting anchor tag to identify the webpage, email address, file, telephone number, or other content to access.​   |  |  |  | | --- | --- | --- | |  | a. | ​dt | |  | b. | ​ol | |  | c. | ​img | |  | d. | ​href | |

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| 15. A \_\_\_\_\_ element is used to define an area or a partition in a webpage.​   |  |  |  | | --- | --- | --- | |  | a. | ​desc | |  | b. | ​div | |  | c. | ​part | |  | d. | ​nav | |

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| 16. An unordered list displays a small graphic called a(n) \_\_\_\_\_ before each item of information.​   |  |  |  | | --- | --- | --- | |  | a. | ​int | |  | b. | ​bullet | |  | c. | ​tag | |  | d. | ​head | |

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| 17. The \_\_\_\_\_ tags must be at the start and end of an ordered list.​   |  |  |  | | --- | --- | --- | |  | a. | ​<ol> and </ol> | |  | b. | ​<ul> and </ul> | |  | c. | ​<orli> and </orli> | |  | d. | ​<dl> and </dl> | |

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| *Indicate whether the statement is true or false.* |

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| 18. GIF files can support over 16 million colors.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| 19. The JPG image file format is used for images that are not digital photos.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| 20. The image tag, <img>, is an empty tag that does not have a beginning tag.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| *Indicate the answer choice that best completes the statement or answers the question.* |

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| 21. With a(n) \_\_\_\_\_ style, one adds a style to the start tag for an element.​   |  |  |  | | --- | --- | --- | |  | a. | ​embedded | |  | b. | ​inline | |  | c. | ​semantic | |  | d. | ​external | |

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| 22. An embedded style sheet includes the style sheet within the \_\_\_\_\_ tags of the HTML document.​   |  |  |  | | --- | --- | --- | |  | a. | ​<body> and </body> | |  | b. | ​<head> and </head> | |  | c. | ​<html> and </html> | |  | d. | ​<style> and </style> | |

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| 23. In the context of a style rule including a selector and a declaration, \_\_\_\_\_ formats h1 elements using blue text.​   |  |  |  | | --- | --- | --- | |  | a. | ​<h1>color=blue</h1> | |  | b. | ​h1 {color: blue;} | |  | c. | ​{color: blue}<h1> | |  | d. | ​h1 (color=blue;) | |

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| 24. The declaration \_\_\_\_\_ indicates that the primary font that the browser tries to use is the Cambria font.   |  |  |  | | --- | --- | --- | |  | a. | ​font-family: <"Times New Roman", "serif"> Cambria; | |  | b. | ​font-family: "serif", Times New Roman, Cambria; | |  | c. | ​font-family: Cambria, "Times New Roman", serif; | |  | d. | ​font-family: <Cambria>pr, "Times New Roman", serif; | |

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| 25. The \_\_\_\_\_ attribute of a link element uses the stylesheet value to indicate that a document is linked to a style sheet.​   |  |  |  | | --- | --- | --- | |  | a. | ​rel | |  | b. | ​lnk | |  | c. | ​href | |  | d. | ​span | |

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| *Indicate whether the statement is true or false. If it is false, change the identified word(s) to make the statement true.* |

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| 26. The best practice is to apply an inline style sheet when one wants to change the style of one page.​ |

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| *Indicate whether the statement is true or false.* |

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| 27. Hexadecimal is a combination of the base-16 numbering system, which includes letters A through F.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| 28. The color code for white in the RGB (Red, Green, Blue) notation is rgb(0,0,0).​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| 29. To style class="mobile", #mobile must be used as the selector.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| *Indicate the answer choice that best completes the statement or answers the question.* |

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| 30. A \_\_\_\_\_ refers to the portion of a webpage that a user sees at any one time, regardless of device, browser, screen size, screen resolution, window size, or orientation.​   |  |  |  | | --- | --- | --- | |  | a. | ​wireframe | |  | b. | ​viewport | |  | c. | ​slide | |  | d. | ​hotspot | |

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| 31. ​\_\_\_\_\_ allow a webpage developer to detect the approximate pixel size of the current viewport.   |  |  |  | | --- | --- | --- | |  | a. | ​Media hotspots | |  | b. | ​System viewports | |  | c. | ​Media queries | |  | d. | ​Meta ports | |

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| 32. ​A(n) \_\_\_\_\_ is considered by some to be a more productive and effective way to build a website from scratch because it forces a web developer to focus on the core, essential content first for the smallest viewport.   |  |  |  | | --- | --- | --- | |  | a. | ​app-first strategy | |  | b. | ​mobile-first strategy | |  | c. | ​view-first strategy | |  | d. | ​information-first strategy | |

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| 33. Responsive designs are based on \_\_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | ​fixed layouts | |  | b. | ​fluid layouts | |  | c. | ​closed layouts | |  | d. | ​static layouts | |

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| 34. ​One \_\_\_\_\_ is equal to one dot on a display screen.   |  |  |  | | --- | --- | --- | |  | a. | ​pixel | |  | b. | ​pica | |  | c. | ​em | |  | d. | ​rem | |

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| 35. ​The default marker for each <li> item in an unordered list is a(n) \_\_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | ​decimal | |  | b. | ​alphabet | |  | c. | ​roman numeral | |  | d. | ​bullet | |

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| 36. ​Setting the \_\_\_\_\_ property to none removes the underlining from a hyperlinked text.   |  |  |  | | --- | --- | --- | |  | a. | ​text-style | |  | b. | ​text-type | |  | c. | ​text-decoration | |  | d. | ​text-line | |

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| 37. ​The \_\_\_\_\_ attribute is used to determine which stylesheet should be applied.   |  |  |  | | --- | --- | --- | |  | a. | ​class | |  | b. | ​coords | |  | c. | ​media | |  | d. | ​shape | |

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| 38. ​Identify a pseudo-class used to style an unvisited link.   |  |  |  | | --- | --- | --- | |  | a. | ​:link | |  | b. | ​:active | |  | c. | ​:hover | |  | d. | ​:visited | |

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| 39. ​The selector \_\_\_\_\_ identifies the color to apply to a navigation link that has been clicked.   |  |  |  | | --- | --- | --- | |  | a. | ​nav a:link | |  | b. | ​nav a:active | |  | c. | ​nav a:hover | |  | d. | ​nav a:visited | |

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| 40. ​One of the new properties introduced with Cascading Style Sheet (CSS) 3 is a \_\_\_\_\_, which is a gradual transition from one color to another.   |  |  |  | | --- | --- | --- | |  | a. | ​breakpoint | |  | b. | ​gradient | |  | c. | ​media query | |  | d. | ​viewport | |

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| *Indicate whether the statement is true or false.* |

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| 41. Media queries cannot determine the size of a viewport.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| *Indicate the answer choice that best completes the statement or answers the question.* |

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| 42. Identify the correct style rule for a paragraph element within a section element to specify a left margin.​   |  |  |  | | --- | --- | --- | |  | a. | ​section <p/> {           margin-left: 0;                  } | |  | b. | ​<section/> p {           margin-left: 0;                  } | |  | c. | ​section p {           margin-left: 0;                  } | |  | d. | ​section <p/> {           margin(left): 0;                  } | |

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| 43. ​Identify the appropriate style rule to style the heading two element within the main element.   |  |  |  | | --- | --- | --- | |  | a. | main h2 {            color: #FFFFFF;          } | |  | b. | ​  <main/> h2 {            color: #FFFFFF;          } | |  | c. | ​  main (h2) {            color: #FFFFFF;          } | |  | d. | main h2 {            <color/>: #FFFFFF;          } | |

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| 44. ​Websites that make visitors create an account or register for an event use \_\_\_\_\_ to collect information about their customers.   |  |  |  | | --- | --- | --- | |  | a. | ​forms | |  | b. | scripts | |  | c. | layouts | |  | d. | ​voice recorders | |

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| 45. ​Identify an HTML table element that indicates the start and end of a row within a table.   |  |  |  | | --- | --- | --- | |  | a. | ​<table> … </table> | |  | b. | ​<tr> … </tr> | |  | c. | ​<tb> … </tb> | |  | d. | ​<row> … </row> | |

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| 46. Consider the following code:  ​  <table><!-- Start Table -->  <caption>Group Fitness Class Schedule</caption>  <tr>  <th>Class</th>  <th>Days</th>  <th>Times</th>  <th>Instructor</th>  <th>Room</th>  </tr>  Identify the number of rows in the table.   |  |  |  | | --- | --- | --- | |  | a. | ​2 | |  | b. | ​5 | |  | c. | ​1 | |  | d. | ​Undefined | |

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| 47. A \_\_\_\_\_ is the line that defines the perimeter of a table.   |  |  |  | | --- | --- | --- | |  | a. | ​table ruler | |  | b. | ​table border | |  | c. | ​table mark | |  | d. | ​table frame | |

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| 48. ​Identify a style rule used to align the table data in the center of the cell.   |  |  |  | | --- | --- | --- | |  | a. | ​th {  <text-align/>: center;  } | |  | b. | ​tdata {  text-align: <center/>;  } | |  | c. | ​td {  text-align: center;  } | |  | d. | ​table\_data {  text-align: center;  } | |

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| 49. ​Identify a code used to create a 25-character text box for a user’s last name.   |  |  |  | | --- | --- | --- | |  | a. | ​<p>Last Name: <input name="lastname" type="text"  size="25"></p> | |  | b. | ​<p>Last Name: <input name="lastname" type="text(25)"></p> | |  | c. | ​<p>Last Name: <input name/>"lastname" size="25"></p> | |  | d. | ​<p>Last Name(TEXT): <input name="lastname"  size="25"></p> | |

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| 50. ​192.168.1.5 is an example of a(n) \_\_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | ​Transmission Control Protocol (TCP) address | |  | b. | ​Internet Protocol (IP) address | |  | c. | ​Domain Name Number (DNN) | |  | d. | ​Internet Access Control (IAC) address | |

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| 51. What is the difference between a text editor and a Hypertext Markup Language (HTML) text editor?​ |

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| *Indicate the answer choice that best completes the statement or answers the question.* |

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| 52. ​A \_\_\_\_\_ tag can be used to declare the character encoding UTF-8.   |  |  |  | | --- | --- | --- | |  | a. | ​<head/> | |  | b. | ​<meta/> | |  | c. | ​<br/> | |  | d. | ​<html/> | |

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| *Indicate whether the statement is true or false.* |

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| 53. To add a document title, the title text must be typed between the starting and ending header tags.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| 54. Explain the functions of comments in Hypertext Markup Language (HTML) with its general syntax.​ |

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| *Indicate the answer choice that best completes the statement or answers the question.* |

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| 55. The \_\_\_\_\_ code means a browser should create a link to the index.html file for a website using the image file named image.png as the link object.​   |  |  |  | | --- | --- | --- | |  | a. | ​<a href="image.png"><img src="index.html"></a> | |  | b. | ​<img src="index.html"><a href="image.png"></a> | |  | c. | ​<a href="index.html"><img src="image.png"></a> | |  | d. | ​<img src="image.png"><a href="index.html"></a> | |

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| 56. \_\_\_\_\_ files are not suitable for high-quality pictures or photos because of the small color palette in them.​   |  |  |  | | --- | --- | --- | |  | a. | ​JPEG | |  | b. | ​GIF | |  | c. | ​SVG | |  | d. | ​PNG | |

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| *Indicate whether the statement is true or false. If it is false, change the identified word(s) to make the statement true.* |

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| 57. The PNG file format was designed to replace the GIF file format for web graphics.​ |

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| *Enter the appropriate word(s) to complete the statement.* |

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| 58. The code <a href=<mailto:newtechnology@education.net>>[newtechnology@education.net</a](mailto:newtechnology@education.net%3c/a)> means the browser should create an email message addressed to \_\_\_\_\_\_\_\_\_ when someone taps or clicks the email link text.​ |

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| 59. Discuss the pros and cons of the various image file formats. Also, give examples of how these formats are used.​ |
| (5 points) |

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| *Enter the appropriate word(s) to complete the statement.* |

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| 60. The color blue is expressed as \_\_\_\_\_\_\_\_\_ in the RGB (Red, Green, Blue) notation.​ |

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| 61. ​Explain why style sheets were created. Include in your response definitions of the following terms: style, Cascading Style Sheets, inline style, embedded style sheet, and external style sheet. |

(5 points)

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| 62. Explain the Cascading Style Sheets (CSS) box model. Include descriptions about margin, border, and padding along with examples in the explanation.​ |

(5 points)

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| 63. ​Discuss responsive design. Include the terms fluid layout, media queries, and flexible images in your response.  (5 points)   |  | | --- | | 64. Describe in detail the mobile-first strategy.​  (5 points) |  |  | | --- | |  | |

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| *Indicate the answer choice that best completes the statement or answers the question.* |

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| 65. ​Identify the style that specifies bottom padding for a section element.   |  |  |  | | --- | --- | --- | |  | a. | ​section {          <padding-bottom/>: 3em;          } | |  | b. | ​section {            padding-bottom: 3em;                    } | |  | c. | ​<section/> {            padding-bottom: 3em;             } | |  | d. | ​  <section/> {            padding-bottom: (3em);             } | |

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| 66. ​Identify the code used to create a table with one row and two columns.   |  |  |  | | --- | --- | --- | |  | a. | ​<table>  <td>  <tr>Semester 1</tr>  <tr>Semester 2</tr>  </td>  </table> | |  | b. | ​<table>  <tr>  <tc>Semester 1</tc>  <tc>Semester 2</tc>  </tr>  </table> | |  | c. | ​<table>  <tr>  <td>Semester 1</td>  <td>Semester 2</td>  </tr>  </table> | |  | d. | ​<table>  <tc>  <td>Semester 1</td>  <td>Semester 2</td>  </tc>  </table> | |

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| 67. Which of the following HyperText Markup Language (HTML) elements is used to embed multimedia content such as Flash files, Java applets, PDF files, and ActiveX controls?​   |  |  |  | | --- | --- | --- | |  | a. | ​swing element | |  | b. | ​definition element | |  | c. | ​object element | |  | d. | ​create element | |

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| 68. Identify the correct code to embed an audio file named music.mp3 on the webpage.​   |  |  |  | | --- | --- | --- | |  | a. | ​<audio\_autoplay="autoplay">  <source src="music.mp3" type="audio/mp3">  <p>Your browser does not support the HTML5 audio element.</p>  </audio> | |  | b. | ​<audio/> <controls/>="controls" autoplay="autoplay">  <source src="music.mp3" type="audio/mp3">  <p>Your browser does not support the HTML5 audio element.</p> | |  | c. | ​<audio controls="controls" autoplay="autoplay">  <source src="music.mp3" type="audio/mp3">  <p>Your browser does not support the HTML5 audio element.</p>  </audio> | |  | d. | ​<audio controls="controls" autoplay=<autoplay/>  <source src="music.mp3" type="audio/mp3">  <p>Your browser does not support the HTML5 audio element.</p>  </audio> | |

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| *Indicate whether the statement is true or false.* |

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| 69. ​The src video element attribute specifies whether and how the video should be loaded when the page loads.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False | |

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| *Indicate the answer choice that best completes the statement or answers the question.* |

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| ​  Gigano Mobiles, a smartphone manufacturer, is going to release its new flagship device next month. The Chief Executive Officer (CEO) of Gigano Mobiles asks Maeve, a website developer, to develop an exclusive website for the flagship device. |

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| 70. ​Maeve has created the website, but she is not able to include more than one blank space at a time. Even if she hits the SPACE button twice, the browser displays it as a single space. Which of the following would you suggest Maeve to use to overcome this problem?   |  |  |  | | --- | --- | --- | |  | a. | ​&nbsp; | |  | b. | ​&lt; | |  | c. | ​&reg; | |  | d. | ​&reg; | |

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| ​  Jenny is a freelance web designer and uses style sheets that give her the flexibility to easily redesign or rebrand a website. Recently, Jenny has received a project wherein she needs to maintain a website for a leading orthopedic appliance manufacturer. |

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| 71. Jenny wants to enhance the look of the webpage by formatting individual sections of the webpage. Which of the following Cascading Style Sheets (CSS) styles should Jenny use so that the style changes the content marked up by a specific pair of tags but does not affect other content in the document?​   |  |  |  | | --- | --- | --- | |  | a. | ​External | |  | b. | ​Internal | |  | c. | ​Embedded | |  | d. | ​Inline | |

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| **Critical Thinking Questions**  **Case 4-2**  ​  Mike is working on the development of a webpage for FreshGroceries. He has been asked to create a list of all the essential daily household goods that people can purchase easily through this online grocery store. |

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| 72. Mike decides to use the Cascading Style Sheets (CSS) list-style properties to create the list of all the grocery goods offered by the online store. Which of the following style rules is accurate if Mike wants to define a filled square bullet for an unordered list of all the grocery items?​   |  |  |  | | --- | --- | --- | |  | a. | ​uli {  style-rule: square bullet type;  } | |  | b. | ​ul {  list-style-type: square;  } ol | |  | c. | ​ul {  list-style-type: square;  } | |  | d. | ​<uli/> {  list-style-type: square;  } | |