Chapter 1: HTML and the Modern Web

TRUE/FALSE

- 1. The W3C was founded before HTML was first formalized.
 - ANS: F PTS: 1 REF: 9-10
- 2. The various committees that make up the W3C look to expand and set standards for the many new Web technologies that have emerged.
 - ANS: T PTS: 1 REF: 10
- 3. XML does not allow you to create your own elements.

ANS: F PTS: 1 REF: 11

4. It is best practice to use all uppercase characters for element and attribute names when writing HTML5.

ANS: F PTS: 1 REF: 20

5. HTML is a What You See Is What You Get (WYSIWYG) layout tool.

ANS: F PTS: 1 REF: 29

6. Most recent HTML authoring tools offer syntax validation and code conversion.

ANS: T PTS: 1 REF: 29

7. A page that you create in an editing interface will always look exactly the same in every browser.

ANS: F PTS: 1 REF: 30

8. Following the W3C standards does not mean that your site has to be visually uninteresting, although you may have to sacrifice the latest multimedia enhancements.

ANS: T PTS: 1 REF: 31

9. Standardizing coding practices helps clean up most common coding errors.

ANS: T PTS: 1 REF: 32

10. Migrating from HTML to HTML5 in an existing site should be done as quickly as possible.

ANS: F PTS: 1 REF: 32-33

MULTIPLE CHOICE

1. The $___$ element tag indicates that the text is a top-level heading.

a.	<h0></h0>	с.	<h6></h6>
b.	<h1></h1>	d.	<h7></h7>

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	ANS: B	PTS:	1	REF:	4	
2.	structure of the docu a. programming		used properly to	c.	be each section of the document based on the coding	
	b. design			d.	logical	
	ANS: D	PTS:	1	REF:	4	
3.	Every browser interp a. compiler b. translator	orets HT	ML in its own	c.	ased on its rendering engine interpreter	
	ANS: C	PTS:	1	REF:	5	
4.	lets you control the presentation characteristics of an entire Web site with a single style sheet					
	document. a. SGML				CSS	
	b. WYSIWYG				HTML	
	ANS: C	PTS:	1	REF:	6	
5.	5. A is a set of rules that describes the display characteristics of a document.					
	a. template sheetb. style sheet				template guide	
	ANS: B	PTS:	1	REF:	6	
6.	Tim Berners-Lee firs	st propo	sed HTML at t	he Euro	pean Laboratory for Particle Physics (CERN) in	
	a. 1984 b. 1987				1989 1991	
	ANS: C	PTS:	1	REF:	9	
7.	The need for new markup languages and standards to address new demands is handled by the					
	a. WC b. W1C				W2C W3C	
	ANS: D	PTS:	1	REF:		
o						
8.	The W3C released vo a. XHTML	ersion 4	.01 OI IN		CSS	
	b. HTML				XML	
	ANS: B	PTS:	1	REF:	11	
9.	follows the mata a. XML; XHTML b. XHTML; XML	rkup rul	es of	c. d.	HTML; XML HTML; XHTML	
	ANS: B	PTS:	1	REF:	12	
10.	In XHTML, empty e a. cancel element b. end tag	lements	are marked wi	c.	slash. closing slash null string	
	o. one ug			u.	nun sumg	

	ANS: C	PTS: 1	REF:	13	
11.	<pre>a. This is b. This is c. This is</pre>	ing is a valid XHTML the first parag the first parag the first para the first para	raph. raph. graph		
	ANS: A	PTS: 1	REF:	13	
12.	The stricter syntax re a. CSS b. WYSIWYG	ules of HTML5 are con	c.	with syntax. JSP XHTML	
	ANS: D	PTS: 1	REF:	16	
13.	In a professional We the basic synta a. CSS b. HTML	-	c.	it is best practice to code using syntax that follows XML ASP	
	ANS: C	PTS: 1	REF:		
14.	When one source of	content is maintained	but diss	eminated to different users or devices, it is called	
	a. single-sourcing b. templating			styling coding	
	ANS: A	PTS: 1	REF:	18	
15.	HTML5 is no longer a. SGML b. WYSIWYG	based on		CSS WCC	
	ANS: A	PTS: 1	REF:	18	
16.	A document is a. rule-adhering b. standardized	one that adheres to the	с.	rules of the language. proper well-formed	
	ANS: D	PTS: 1	REF:	20	
17.	<pre>Which of the following is the most compatible? a. Here is some text b. <"p" class="copy">Here is some text c. Here is some text d. Here is some text </pre>				
	ANS: A	PTS: 1	REF:	21	
18.	The element is a. <article> b. <body></body></article>	the root or parent elen	c.	all content sections, making it a sectioning root. <header> <section></section></header>	
	ANS: B	PTS: 1	REF:	22	

19.	Which of the following	ing is a heading eleme	nt?		
	a. <content></content>	č		<section></section>	
	b. <body></body>		d.	<h2></h2>	
	ANS: D	PTS: 1	REF:	22	
20.	Which of the followi a. <h1> b. </h1>	ing elements is include	c.	rasing content? <body> </body>	
	ANS: B	PTS: 1	REF:	22	
21.		ing is a new element o or other visual image			
	ANS: C	PTS: 1	REF:	23	
22.	 The HTML5 element <figure> is used to contain</figure> a. the primary page content b. additional content such as a quote or sidebar c. the page header content d. images for article content 				
	ANS: D	PTS : 1	REF:	27	
23.	 Coding with standards and respecting the W3C mandate to separate frommakes your content more accessible and portable to different devices and destinations. a. content structure, presentation information b. images, text c. colors, fonts d. images, content 				
	ANS: A	PTS: 1	REF:	31	
24.	What is one of the ma. Declaring a doctb. Missing closing	ype	c.	uld make your code invalid? Quoting attributes Nesting tags	
	ANS: B	PTS: 1	REF:	32	
25.		g display information		rom HTML to HTML5? Evaluate existing code Start using CSS	
	ANS: C	PTS: 1	REF:	33	

COMPLETION

1. Once you are familiar with HTML syntax, you will find that one of the best ways to learn new coding techniques is to find a Web page you like and view the _____.

ANS: source code

PTS: 1 REF: 4

2. The most engaging aspect of browsing the World Wide Web is the linking of information on related topics using ______, a nonlinear way of organizing information.

ANS: hypertext

PTS: 1 REF: 8

3. The ______ sets standards for HTML and provides an open, nonproprietary forum for industry and academic representatives.

ANS: W3C World Wide Web Consortium

W3C (World Wide Web Consortium) World Wide Web Consortium (W3C)

PTS: 1 REF: 10

4. ______ elements are those that the W3C has identified as obsolete and consequently will not be included in future releases of HTML.

ANS: Deprecated

PTS: 1 REF: 11

5. You can nest XHTML tags, but they must not ______.

ANS: overlap

PTS: 1 REF: 19

6. All attribute values in XHTML must be contained within ______.

ANS: quotes quotation marks

PTS: 1 REF: 19|21

7. Information about the document itself, such as how to present the document, or what other documents are related to the current one, such as style sheets, is known as ______.

ANS: metadata

PTS: 1 REF: 21

8. _______ is descriptive markup that identifies the intended use of document sections.

ANS: Semantic markup

PTS: 1 REF: 31

pages.

ANS: Cascading Style Sheets CSS Cascading Style Sheets (CSS) CSS (Cascading Style Sheets)

PTS: 1 REF: 34

10. A(n) ______ is a structured language that lets you identify common elements of a document such as headings, paragraphs, and lists.

ANS: markup language

PTS: 1 REF: 2|35

ESSAY

1. Define HTML, and describe its structure and role in Web design.

ANS:

HTML is a markup language, a structured language that lets you identify common sections of a Web page such as headings, paragraphs, and lists with markup tags that define each section. For example, the <h1> element in the following code indicates that the text is a first-level heading:

<h1>What is HTML?</h1>

Web pages are simply text documents that use HTML to tell the browser how to display each document section.

An HTML file includes the text that the user sees in the browser, contained within HTML markup elements the user cannot see that identify document sections and elements.

The HTML code is interpreted by the browser to create the displayed results. HTML is an application of SGML, a standard system for specifying document structure using markup tags.

PTS: 1 REF: 2-4

2. What are Cascading Style Sheets? Why are they useful?

ANS:

To add presentation information to Web pages, Web designers use a style language called Cascading Style Sheets (CSS). With CSS you can display information for different devices, lay out page designs, and control typography, color, and many other presentation characteristics.

Style elements such as were introduced by browser developers to help Web designers bypass the design limitations of HTML. Using elements such as to embed style information within structure limits the cross-platform compatibility of the content. A style sheet is a set of style rules that describes the display characteristics of a document. With style sheets, the presentation properties are separate from the content. This accommodates the variety of devices and users that browse the Web.

9.

CSS lets you control the presentation characteristics of an entire Web site with a single style sheet document. For example, assume you want all of your <h1> headings to appear green and centered everywhere on your Web site. Prior to CSS you might have included the following code for every instance of an <h1> element:

<h1 align="center">Some Heading Text</h1>

Using a CSS rule, you can express the same style as follows:

h1 {color: green; text-align: center;}

You can place this rule in an external style sheet and then link every page on your site to that style sheet; the single rule controls every <h1> element in your Web site. Later, if you want to change the <h1> color to red, you simply revise the style sheet rule to change every page on your site.

PTS: 1 REF: 5-8

3. Describe the two syntaxes HTML5 offers and explain the reasons why you may choose to use one over the other.

ANS:

HTML5 offers two syntaxes. One is based on HTML syntax, and the other on stricter XML syntax rules, which makes it compatible with XHTML.

The HTML version of HTML5 is more relaxed and allows authors to use shortcuts in their code. Elements do not always have to be closed and the class attributes do not require quotes around their content values. This more relaxed version of HTML5 is backwards compatible with HTML 4.01. This syntax is appropriate for anyone building a noncommercial Web site.

The stricter syntax rules of HTML5 are consistent with XHTML syntax. XML syntax rules are applied. All elements require closing tags and class attributes require quotes around their content value. In a professional Web development environment it is best practice to code with this syntax. Using this syntax, the code you create for Web content can have multiple purposes and potentially be used in a variety of display and application environments.

PTS: 1 REF: 16-17

4. List the six basic rules needed to create syntactically correct HTML5 code and briefly describe each one.

ANS:

1. Documents must be well formed: A well-formed document is one that adheres to the syntax rules.

2. All tags must nest properly and not overlap: You can nest HTML elements, but they must not overlap. Each set of opening and closing tags must completely contain any elements that are nested within the set.

3. Use all lowercase for element names: Even though HTML5 allows uppercase and lowercase element names, it is considered good coding practice to always use lowercase. Use all lowercase characters for element and attribute names when writing your code, this will ensure that your code can be XHTML compatible if it needs to be used in some type of content management or application processing environment.

4. Always use closing tags: Although in the looser HTML5 syntax certain elements such as the elements are allowed optional closing tags, it is a much better practice to always close all elements.

5. Empty elements are marked with a closing slash: Empty elements must be marked "empty" by a slash (/) in the single tag.

6. Attribute values must be contained in quotation marks: Although in the looser HTML5 syntax, attribute values do not have to be quoted, your code is more compatible when you always contain all attribute values within quotes.

PTS: 1 REF: 19-21

5. What are the five steps involved in migrating from HTML to HTML5? Briefly describe each step.

ANS:

1. Evaluate existing code: Check for basic compliance with XHTML syntax rules. Are closing tags included? Are all tags lowercase? Are attributes quoted? How much cleanup work is necessary to make the code well formed? Most of this work can be automated in the various HTML editing programs.

2. Evaluate existing presentation information: How much of your code includes obsolete elements such as and obsolete attributes such as "bgcolor," "face," and "size"? On many sites, this information can make up as much as 50 percent of the existing code. Start thinking about how you can express these characteristics in CSS.

3. Create coding conventions: Create coding conventions and follow them throughout the site. Make sure that new content added to the site follows the new coding and CSS standards. The more you standardize, the easier your maintenance chores become.

4. Start using CSS: Start by building simple style sheets that express basic characteristics such as page colors, font family, and font size. Consider using more advanced CSS options such as classes that allow you to name and standardize the various styles for your site. As you build style rules, start to remove the existing display information in the site.

5. Test for backward compatibility: Remember to test in older browsers to make sure that your content is legible and readable. Test carefully with your CSS style rules to make sure that they are supported in older browsers.

PTS: 1 REF: 33