

Chapter 1: Introduction to the Internet and Web Design

1. The _____ is a term used to describe the ever-growing number of devices connecting to a network, including televisions and appliances.

- a. Internet of Things
- b. World Wide Web
- c. Internet backbone
- d. Domain Name System (DNS)

ANSWER:

a

2. The world's largest network is the _____.

- a. Internet
- b. Internet of Things
- c. intranet
- d. extranet

ANSWER:

a

3. 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

ANSWER:

d

4. The _____ page of a website typically provides information about the website's purpose and content, often by including a list of links to other webpages on the website.

- a. home
- b. tables
- c. tools
- d. server

ANSWER:

a

5. Each website contains a _____ page, which is the first document users see when they access the site.

- a. home
- b. documents
- c. tools
- d. server

ANSWER:

a

6. A _____ is a host computer that stores resources and files for websites.

- a. client
- b. server
- c. modulator
- d. demodulator

ANSWER:

b

Chapter 1: Introduction to the Internet and Web Design

7. 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

ANSWER: d

8. _____ 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)

ANSWER: c

9. _____ oversees the network connection between the data source and destination and micromanages the data.

- a. Dynamic Host Configuration Protocol (DHCP)
- b. Internet Control Message Protocol (ICMP)
- c. Internet Protocol (IP)
- d. Transmission Control Protocol (TCP)

ANSWER: d

10. 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

ANSWER: b

11. The _____ was created to resolve the difficulty in remembering and using Internet Protocol (IP) addresses to access websites.

- a. Domain Name System (DNS)
- b. Machine Access Control (MAC) system
- c. Computer Stack System (CSS)
- d. Shared Network Storage (SNS) system

ANSWER: a

12. In order to view a webpage on any type of website, a device needs to have a web _____ installed.

- a. browser
- b. client
- c. manager
- d. server

ANSWER: a

Chapter 1: Introduction to the Internet and Web Design

13. A web _____ is a program that interprets and displays webpages so that users can view and interact with a webpage.

- a. server
- b. browser
- c. resource locator
- d. client

ANSWER: b

14. A _____ is an area of the Internet a particular organization or person manages.

- a. wireframe
- b. proxy
- c. domain
- d. protocol

ANSWER: c

15. A(n) _____ is a private network that uses Internet technologies to share company information among employees.

- a. newsgroup
- b. ethernet
- c. extranet
- d. intranet

ANSWER: d

16. A(n) _____ is contained within a company or organization's network, which makes it private and available only to those who need access.

- a. extranet
- b. component network
- c. intranet
- d. newsgroup

ANSWER: c

17. A(n) _____ is the address of a document or other file accessible on the Internet.

- a. client tag
- b. Uniform Resource Locator (URL)
- c. explorer link
- d. Digital Resource Identifier (DRI)

ANSWER: b

18. To access a website using a browser, one must type the webpage's _____ in the browser's address bar.

- a. tag
- b. Uniform Resource Locator (URL)
- c. header
- d. Digital Resource Identifier (DRI)

ANSWER: b

Chapter 1: Introduction to the Internet and Web Design

19. An example of a _____ present in a browser is <http://www.cengagebrain.com/shop/index.html>.

- a. Uniform Resource Locator (URL)
- b. tag
- c. header
- d. Digital Resource Identifier (DRI)

ANSWER:

a

20. Instructors use a _____ to communicate announcements, post questions on reading material, list contact information, and provide access to lecture slides and videos.

- a. Continuous Assessment System (CAS)
- b. Learning Management System (LMS)
- c. Learning Information System (LIS)
- d. Subject Scheduling System (SSS)

ANSWER:

b

21. A(n) _____ is a private network that uses Internet technologies to share business information with selected corporate partners or key customers.

- a. extranet
- b. intranet
- c. newsnet
- d. ethernet

ANSWER:

a

22. A(n) _____ can allow retailers to purchase inventory directly from their suppliers or to pay bills online.

- a. ethernet
- b. extranet
- c. access point network
- d. newsnet

ANSWER:

b

23. Using _____ technologies, many websites allow customers to browse product catalogs, compare products and services, and order goods online.

- a. search engine optimization
- b. control assistive
- c. e-commerce
- d. intranet

ANSWER:

c

24. _____ allows developers to create one website that provides an optimal viewing experience across a range of devices.

- a. Adaptive design
- b. Topographic design
- c. Responsive design

Chapter 1: Introduction to the Internet and Web Design

- d. Geographic design

ANSWER:

c

25. A _____ is a simple, visual guide that clearly identifies the location of main webpage elements, such as the navigation area, organization logo, content areas, and images.

- a. proxy
- b. prototype
- c. wireframe
- d. singleton

ANSWER:

c

26. _____ in a wireframe is an area on the page that is intentionally left blank.

- a. Passive white space
- b. An active blue line
- c. A passive blue line
- d. Active white space

ANSWER:

d

27. _____ in a wireframe is the space between content areas.

- a. Active white space
- b. A passive blue line
- c. Passive white space
- d. An active blue line

ANSWER:

c

28. 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)

ANSWER:

b

29. A _____ website structure is appropriate if visitors should view the webpages in a specific order, as in the case of training material in which users need to complete Training module 1 before attempting Training module 2.

- a. hierarchical
- b. linear
- c. webbed
- d. ruffled

ANSWER:

b

30. A _____ website structure connects webpages in a treelike structure.

- a. hierarchical

Chapter 1: Introduction to the Internet and Web Design

- b. partitional
- c. webbed
- d. nested

ANSWER:

a

31. A _____ website structure has no set organization.

- a. hierarchical
- b. partitioned
- c. cascaded
- d. webbed

ANSWER:

d

32. The _____ develops and maintains web standards, language specifications, and accessibility recommendations.

- a. Bureau of Labor Statistics
- b. Division of Professional Regulation
- c. U.S. Congress
- d. World Wide Web Consortium

ANSWER:

d

33. _____ is an authoring language used to create documents for the web.

- a. Structured Query Language (SQL)
- b. Extensible Stylesheet Language (XSL)
- c. Unified Modeling Language (UML)
- d. Hypertext Markup Language (HTML)

ANSWER:

d

34. _____ define additional characteristics, or properties, of Hypertext Markup Language (HTML) elements such as the width and height of an image.

- a. Parameters
- b. Cells
- c. Wireframes
- d. Attributes

ANSWER:

d

35. Prior to HTML 5, the _____ tag meant horizontal rule or reference. It is now called a thematic break and is used to distinguish between various topics on a single webpage.

- a. line
- b. across
- c. rule
- d. hr

ANSWER:

d

Chapter 1: Introduction to the Internet and Web Design

36. _____ is a popular language used to create interactivity within a web browser.

- a. Linux
- b. Structured Query language (SQL)
- c. JavaScript
- d. C++

ANSWER:

c

37. _____ is designed to exchange and transport data.

- a. Extensible Markup Language (XML)
- b. JavaScript
- c. Unified Modeling Language (UML)
- d. Practical Extraction and Report Language (PERL)

ANSWER:

a

38. _____ is an open-source, server-side scripting language used for performing common tasks such as writing to or querying a database located on a central server.

- a. PHP (Hypertext Preprocessor)
- b. JavaScript
- c. Python
- d. ActionScript

ANSWER:

a

39. _____ is a server-side scripting technology from Microsoft used to accomplish server-side processing tasks, similar to PHP.

- a. Dart
- b. ASP (Active Server Pages)
- c. ActionScript
- d. Python

ANSWER:

b

40. _____ is a popular WYSIWYG editor used by many people and businesses around the world for web development.

- a. Adobe Dreamweaver
- b. Notepad
- c. Notepad++
- d. TextWrangler

ANSWER:

a

41. All HTML5 webpages must begin with the HTML element _____.

- a. <meta charset = "UTF-8">
- b. <!DOCTYPE html>
- c. <HTML LANG="en">
- d. <html itemscope>

ANSWER:

b

Chapter 1: Introduction to the Internet and Web Design

42. The _____ is a compressed format that allows computers to display and manipulate text.

- a. Universal Character Format (UCF)
- b. American Standard Code for Information Interchange (ASCII)
- c. United Binary Format (UBF)
- d. Unicode Transformation Format (UTF)

ANSWER: d

43. _____ are popular browsers in use today.

- a. Microsoft Edge
- b. Mozilla Firefox
- c. Apple Safari
- d. Mosaic

ANSWER: a, b, c

44. The factors associated with a target audience that help to design a website appropriate to all users are _____.

- a. age
- b. gender
- c. income level
- d. level of computer literacy

ANSWER: a, b, d

45. Companies and organizations can use extranets to share _____.

- a. product manuals
- b. inventory status
- c. employee directories
- d. order information

ANSWER: a, b, d

46. Hypertext Markup Language (HTML) elements consist of _____.

- a. a start tag
- b. a sub tag
- c. an end tag
- d. content

ANSWER: a, c, d

47. _____ are server-side scripting languages.

- a. PHP (Hypertext Preprocessor)
- b. ASP (Active Server Pages)
- c. Practical Extraction and Report Language (PERL)
- d. TypeScript (TS)

ANSWER: a, b

Chapter 1: Introduction to the Internet and Web Design

48. The File Transfer Protocol (FTP) associates an Internet Protocol (IP) address with a domain name.

ANSWER: False - Domain Name System (DNS)

49. A Learning Management System is a web-based software application designed to facilitate online learning.

ANSWER: True

50. A webbed website structure connects webpages in a straight line.

ANSWER: False - linear

51. The web itself uses a hierarchical structure so that users can navigate among webpages in any order they choose.

ANSWER: False - webbed

52. The convention for HTML 5 is to use all uppercase tags to conform to the current World Wide Web Consortium (W3C) standard.

ANSWER: False - lowercase

53. The Internet backbone is a collection of high-speed data lines that link major computer systems located around the world.

- a. True
- b. False

ANSWER: True

54. Cloud computing is a term used to describe the ever-growing number of devices connecting to a network, including televisions and appliances.

- a. True
- b. False

ANSWER: False

55. A webpage is a related collection of websites created and maintained by a person, company, educational institution, or other organizations.

- a. True
- b. False

ANSWER: False

56. Only images can serve as links.

- a. True
- b. False

ANSWER: False

57. A hyperlink, more commonly called a link, is an element that connects one webpage to another webpage on the same server or to any other web server in the world.

- a. True
- b. False

Chapter 1: Introduction to the Internet and Web Design

ANSWER: True

58. A File Transfer Protocol (FTP) provides certain mechanisms to view a webpage.

- a. True
- b. False

ANSWER: False

59. The tasks Internet Protocol (IP) performs are similar to those workers or machines perform when handling a bundle of packages in a post office.

- a. True
- b. False

ANSWER: False

60. Secure socket layer (SSL) protocol is the fundamental protocol used to exchange text, graphics, audio, video, and other multimedia files on the web.

- a. True
- b. False

ANSWER: False

61. All browsers display webpages identically.

- a. True
- b. False

ANSWER: False

62. The Internet is contained within a company's or an organization's network.

- a. True
- b. False

ANSWER: False

63. To create a website that provides an optimal viewing experience across a range of devices, an adaptive design must be used.

- a. True
- b. False

ANSWER: False

64. A wireframe is a planning tool that shows the structure of a website.

- a. True
- b. False

ANSWER: False

65. The goal of active white space in a wireframe is to help balance the design of an asymmetrical page.

- a. True
- b. False

ANSWER: True

Chapter 1: Introduction to the Internet and Web Design

66. Active white spaces in a wireframe help a user to focus on one part of the page.

- a. True
- b. False

ANSWER: False

67. A hierarchical structure works well on a site with a main index or table of contents page that links to all other webpages.

- a. True
- b. False

ANSWER: True

68. Most websites use a combination of linear, hierarchical, and webbed structures.

- a. True
- b. False

ANSWER: True

69. A web designer should always create pages for viewing by a diverse audience, including physically impaired and global users.

- a. True
- b. False

ANSWER: True

70. Hypertext Markup Language (HTML) combines tags and descriptive attributes that define how a document should appear in a web browser.

- a. True
- b. False

ANSWER: True

71. Extensible Hypertext Markup Language (XHTML) was created to work with XML-based user agents.

- a. True
- b. False

ANSWER: True

72. A PHP (Hypertext Preprocessor) script, which is processed at the server, results in an HTML webpage that is sent back to the client.

- a. True
- b. False

ANSWER: True

73. The mission of jQuery is to “drive broad adoption and ongoing development of key JavaScript solutions and related technologies.”

- a. True
- b. False

ANSWER: True

Chapter 1: Introduction to the Internet and Web Design

74. A text editor allows dragging HTML elements onto a page while the code is being written in the editor.

- a. True
- b. False

ANSWER: False

75. Microsoft Word has a Save As Web Page option that converts a document into a Hypertext Markup Language (HTML) file by automatically adding HTML tags to the document.

- a. True
- b. False

ANSWER: True

76. WYSIWYG editors provide a graphical user interface to design a webpage, as opposed to the blank page provided in a text editor used to write code.

- a. True
- b. False

ANSWER: True

77. Hypertext Markup Language (HTML) browsers ignore spaces that exist between the tags in a HTML document.

- a. True
- b. False

ANSWER: True

78. The _____ is a worldwide collection of computers linked together for use by businesses, governments, educational institutions, other organizations, and individuals using communications devices and media.

ANSWER: Internet

79. A(n) _____ is a collection of two or more computers that are linked together to share resources and information.

ANSWER: network

80. The _____ is the service that provides access to information stored on web servers and consists of a collection of linked files.

ANSWER: web
World Wide Web

81. Tapping or clicking a _____ allows one to move quickly from one webpage to another without being concerned about where the webpages reside.

ANSWER: link
hyperlink

82. The collection of linked files on the web is known as _____.

ANSWER: pages
webpages

83. A(n) _____ is an element that connects one webpage to another webpage on the same server or any other web server in the world.

Chapter 1: Introduction to the Internet and Web Design

ANSWER: hyperlink
link

84. _____ is a pair of protocols used to transfer data efficiently over the Internet by properly routing it to its destination.

ANSWER: Transmission Control Protocol/Internet Protocol (TCP/IP)
Transmission Control Protocol/Internet Protocol
TCP/IP
TCP/IP (Transmission Control Protocol/Internet Protocol)

85. A(n) _____ is another term for a website that is generally available to anyone with an Internet connection.

ANSWER: Internet site

86. The buying and selling of goods and services on the Internet is called _____.

ANSWER: e-commerce
electronic commerce
electronic commerce (e-commerce)
e-commerce (electronic commerce)

87. A(n) _____ website structure connects webpages in a straight line.

ANSWER: linear

88. With a _____ website structure, the main index page displays general information and secondary pages include more detailed information.

ANSWER: hierarchical

89. A(n) _____ website structure works best on sites with information that does not need to be read in a specific order and pages that provide many navigation options.

ANSWER: webbed

90. Several companies that use web technologies participate in work groups with the _____ to develop standards and guidelines for the web.

ANSWER: World Wide Web Consortium (W3C)
World Wide Web Consortium
W3C
W3C (World Wide Web Consortium)

91. Hypertext Markup Language (HTML) _____ define additional characteristics, or properties, of the element such as the width and height of an image.

ANSWER: attributes

92. <title> Webpage Example </title> is an example of a Hypertext Markup Language (HTML) _____.

ANSWER: element

93. _____ is a rewritten version of Hypertext Markup Language (HTML) using Extensible Markup Language (XML)

Chapter 1: Introduction to the Internet and Web Design

and was developed in 2000.

ANSWER:

Extensible Hypertext Markup Language (XHTML)
Extensible Hypertext Markup Language
XHTML
XHTML (Extensible Hypertext Markup Language)

94. _____ is a library of JavaScript programs designed for easy integration onto a webpage.

ANSWER: jQuery

95. A(n) _____ is a program that allows a user to enter, change, save, and print text, which includes Hypertext Markup Language (HTML) tags.

ANSWER: text editor

96. Hypertext Markup Language (HTML) is _____, meaning one can create, or code, an HTML file on one type of operating system and then use a browser on another type of operating system to view that file as a webpage.

ANSWER: platform independent

97. A(n) _____ editor is a program that provides a graphical user interface that allows a developer to preview the webpage during its development.

ANSWER:
WYSIWYG
What You See Is What You Get
What You See Is What You Get (WYSIWYG)
WYSIWYG (What You See Is What You Get)

98. Explain the working of Transmission Control Protocol/Internet Protocol (TCP/IP).

ANSWER: Transmission Control Protocol/Internet Protocol (TCP/IP) is a pair of protocols used to transfer data efficiently over the Internet by properly routing it to its destination. TCP oversees the network connection between the data source and destination and micromanages the data. When data is sent over the Internet, TCP breaks the data into packets. Each packet contains addressing information, which the IP manages. IP ensures that the data is sent to the correct location.

99. Define Learning Management System (LMS) and discuss its purpose.

ANSWER: A Learning Management System (LMS) is a web-based software application designed to facilitate online learning. Instructors use the LMS to communicate announcements, post questions on reading material, list contact information, and provide access to lecture slides and videos. Students use the LMS to find information related to their courses, including project instructions and grades. Many LMS tools allow instructors to write their own webpage content that provides further information for their students.

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

ANSWER: A text editor is a program that allows a user to enter, change, save, and print text, which includes HTML tags. Text editors do not typically have many advanced features, but they do allow one to develop HTML documents easily. You can also create Web pages using an HTML text editor, such as EditPlus or BBEdit (MacOS). An HTML text editor is a program that provides basic text-editing functions, as well as more advanced features such as color-coding for various HTML tags, menus to insert HTML tags, and a spelling checker.

Chapter 1: Introduction to the Internet and Web Design

Critical Thinking Questions

Case 1-1

Mark is given the responsibility of setting up a method for distributing information at the university where he works.

101. The content that needs to be distributed will include course lists with student data, lecture notes, and slides that should be available only to the students in a given course. Which of the following technologies is the best choice for Mark?

- a. A wireframe because it provides a visual guide of the contents of a webpage
- b. An extranet because it is contained within an organization's network
- c. An intranet because it is a private network that can be limited to sharing information among members of a particular group
- d. A sitemap because it indicates how webpages are related to each other

ANSWER:

c

102. Mark's assignment changes and he needs to develop a solution for the finance office at the university. He will need to allow vendors to submit their bills online and to check if the university has paid their bills. Which of the following technologies is the best choice for him?

- a. Intranet
- b. Extranet
- c. Internet
- d. Vendornet

ANSWER:

b

Critical Thinking Questions

Case 1-2

Mark and Sebastian are building a new e-commerce site. Their goal is to focus on customers' needs and to gain popularity among their competitors.

103. They built a website that provides an optimal viewing experience across a wide range of devices. Identify the website design that has been used by Mark and Sebastian.

- a. Responsive design
- b. Asynchronous design
- c. Adaptive design
- d. Reactive design

ANSWER:

a

104. Before creating their website, Mark and Sebastian identify the location of main webpage elements using wireframe. They leave a few areas of the website intentionally blank to help balance the design of an asymmetrical page. What are these intentionally left blank spaces called?

- a. Passive white space
- b. Active white space
- c. Active dark space

Chapter 1: Introduction to the Internet and Web Design

- d. Passive dark space

ANSWER:

b

Identify the letter of the choice that best matches the phrase or definition.

- a. server
- b. Internet
- c. Domain Name System (DNS)
- d. webbed
- e. hyperlinks
- f. Hypertext Markup Language (HTML)
- g. hierarchical
- h. Active white space
- i. Unicode Transformation Format (UTF)
- j. World Wide Web Consortium (W3C)

105. It is the host computer that stores resources and files for websites.

ANSWER:

a

106. With these, a website user does not have to view information linearly.

ANSWER:

e

107. It is an authoring language used to create documents for the web.

ANSWER:

f

108. It is a worldwide collection of computers linked together for use by organizations and individuals using communications devices and media.

ANSWER:

b

109. This website structure has no set organization.

ANSWER:

d

110. This website structure connects webpages in a treelike structure.

ANSWER:

g

111. This develops and maintains web standards, language specifications, and accessibility recommendations.

ANSWER:

j

112. It eliminates the difficulty in remembering the Internet Protocol (IP) addresses to access websites.

ANSWER:

c

113. It helps to balance the design of an asymmetrical page.

ANSWER:

h

114. This is standard for HTML 5 pages and is the preferred encoding standard for email and other applications.

ANSWER:

i

Name _____ Class _____ Date _____
: _____ : _____ e: _____

Chapter 1: Introduction to the Internet and Web Design