

Family (or Last) Name \_\_\_\_\_

Given (or First) Name \_\_\_\_\_

Student ID \_\_\_\_\_

### Instructions

1. This exam has 9 pages in total, numbered 1 to 9. Make sure your exam has all the pages.
2. Note the number written on the upper right-hand corner of the first page. On the sign-up sheet being passed around, sign your name next to this number.
3. This exam will be 1 hour, 25 minutes in length.
4. This is a closed-book, closed-note exam.
5. Write your answers in the answer spaces provided.

I have read and understand all of the instructions, and I will obey the Academic Honor Code.

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Signature and Date

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

1) RGB is short for \_\_\_\_\_.

1) \_\_\_\_\_

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

2) If you change the width of an image without changing the height of it, you will end up with a distorted image. 2) \_\_\_\_\_

3) Hierarchy trees are upside down, with the root at the top. 3) \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

4) Monitors are \_\_\_\_\_, that is, their display information is stored in the computer's memory. 4) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

5) You can tell if your Web page is indexed if: 5) \_\_\_\_\_  
A) you get an email from a search engine saying it's been crawled  
B) it shows up in a search  
C) your links work  
D) all of the above

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

6) www is required in all Web addresses. 6) \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

7) Arranging groupings in a hierarchy so each item appears only once is called \_\_\_\_\_. 7) \_\_\_\_\_

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

8) Search engines generally consider the words of a search as a group. 8) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

9) Hits are: 9) \_\_\_\_\_  
A) web pages where the content has been verified as correct  
B) web pages that match the search criteria  
C) web pages that are not indexed by a search engine  
D) outdated web pages

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

10) The first and last tag on a Web page is always the html tag. 10) \_\_\_\_\_

11) Once connected to a Web server, the connection remains in place until the client requests a page from another client. 11) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 12) How many digits are there in the hexadecimal number system, i.e., what is the base? 12) \_\_\_\_\_  
A) 60 B) 16 C) 6 D) 10
- 13) To find pages on the Wright brothers and bicycles, your best search would look like: 13) \_\_\_\_\_  
A) "Wright brothers" AND "bicycles" B) Wright brothers bicycles  
C) Wright OR bicycles D) "Wright AND bicycles"

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

- 14) Any color displayed on a computer screen is a combination of red, green, and blue. 14) \_\_\_\_\_
- 15) Email addresses cannot have spaces in them, but Web page addresses can. 15) \_\_\_\_\_
- 16) The layout of a Web page depends on the tags used, not on the layout of the source file. 16) \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

- 17) Using \_\_\_\_\_ around words in a search makes the search engine look for an exact match. 17) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 18) When an image is inserted next to text in an HTML document, keep in mind generally: 18) \_\_\_\_\_  
A) text cannot be placed on the same line as the image  
B) images are inserted in the text where specified by the HTML and the text is aligned with the bottom of the image  
C) images are in the text where specified by the HTML and the text is aligned with the right of the image  
D) the size of the text is automatically adjusted to fill the area beside the image

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

- 19) Hyperlinks to pages on another Web site must contain an absolute file reference, while onsite links may contain a relative reference. 19) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 20) The tag <body bgcolor = "#888888"> would give you the background color: 20) \_\_\_\_\_  
A) gray B) black C) white D) an error
- 21) A search engine consists partly of a: 21) \_\_\_\_\_  
A) spider and a web B) snoop and a bull's-eye  
C) query processor and a crawler D) link and a crawler

- 22) Going down a hierarchy means: 22) \_\_\_\_\_  
A) >  
B) moving toward the leaves  
C) moving from a general topic to a specific topic  
D) all of the above

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

- 23) A two-pass search searches within a previous search. 23) \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

- 24) \_\_\_\_\_ is the process of transmitting pages to a Web server so others can view them. 24) \_\_\_\_\_

- 25) A \_\_\_\_\_ is a computer that provides services to another computer. 25) \_\_\_\_\_

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

- 26) It is possible to create a list within a list. 26) \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

- 27) The highlighted text of a document that makes up part of a hyperlink is called the \_\_\_\_\_ 27) \_\_\_\_\_

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

- 28) The DNS translates a human-readable address into an IP address. 28) \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

- 29) Hex stands for \_\_\_\_\_. 29) \_\_\_\_\_

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

- 30) The default alignment for a line of text is center. 30) \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

- 31) A computer is considered a(n) \_\_\_\_\_ when it gets services from another computer. 31) \_\_\_\_\_

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

- 32) Finding a number in a phone book is an example of random access. 32) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 33) Which of the following will display the rocket.jpg file on the page? 33) \_\_\_\_\_  
A) <img src = "rocket.jpg"> B) <img "rocket.jpg">  
C) <img src "rocket.jpg"> D) <img src rocket.jpg>

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

34) RAM is short for \_\_\_\_\_.

34) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

35) If I wanted the word "Stop!" in red on my Web page, I would have to:

35) \_\_\_\_\_

- A) use a red graphic that said "Stop!" and pick a different color for my text
- B) use the font tag with the color attribute
- C) set my RGB specification to 0000FF
- D) make all the text on the page red

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

36) Text and background are limited to 16 colors.

36) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

37) Google is a:

37) \_\_\_\_\_

- A) verb
- B) search engine
- C) web crawler
- D) more than one of the above

38) Which of the following tags is not required on a Web page?

38) \_\_\_\_\_

- A) <html>
- B) </hr>
- C) <head>
- D) <body>

39) Full intensity of red, green, and blue will give you:

39) \_\_\_\_\_

- A) black
- B) white
- C) FFFFFFFF
- D) both B and C

40) Which of the following represents the correct order, from largest to smallest?

40) \_\_\_\_\_

- A) LAN, WWW, Internet
- B) Internet, LAN, WWW
- C) WWW, Internet, LAN
- D) Internet, WWW, LAN

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

41) The WWW is larger than the Internet.

41) \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

42) Information found by the crawler of a search engine is organized into a(n) \_\_\_\_\_.

42) \_\_\_\_\_

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

43) Each pair of table row, <tr> </tr>, tags has at least one pair of table data, <td> </td>, tags.

43) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

44) A DHCP (Dynamic Host Computer Protocol):

44) \_\_\_\_\_

- A) maintains a LAN's connection to the Internet
- B) makes sure a computer gets the same IP every time it connects to the network
- C) lets the computer select its own IP when it connects to the network
- D) assigns an IP address to the computer from a list of possible addresses

- 45) Searching for "baseball" AND ("stadiums" OR "parks") AND NOT "national parks?" would look for: 45) \_\_\_\_\_
- A) baseball and stadiums and parks not national parks
  - B) baseball stadiums or baseball parks not national parks
  - C) baseball or stadiums or parks not national parks
  - D) none of the above

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

- 46) HTML file names must end with .html or .htm . 46) \_\_\_\_\_
- 47) Only a fraction of the pages on the Web have been indexed. 47) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 48) Advanced searches can help you find: 48) \_\_\_\_\_
- A) pages that were recently updated
  - B) pages in a certain language
  - C) files in a certain format
  - D) all of the above

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

- 49) A grid of cells on a Web page is called a \_\_\_\_\_. 49) \_\_\_\_\_

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

- 50) Characters stored in the computer are case sensitive. 50) \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

- 51) To leave a term out of a search, you would need to use the \_\_\_\_\_ operator. 51) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 52) Which of the following lines is properly nested? 52) \_\_\_\_\_
- A) <p><i><b>Happy New Year!</b></i></p>
  - B) </p></b></i>Happy New Year!<p><b><i>
  - C) </p></b></i>>Happy New Year!<i><b><p>
  - D) <p><i><b>Happy New Year!</p></i></b>

- 53) A WAN is to TCP/IP as LAN is to: 53) \_\_\_\_\_
- A) Ethernet
  - B) DNS
  - C) channel
  - D) packet

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

- 54) Points on a Web page that allow you to jump to other pages are called \_\_\_\_\_. 54) \_\_\_\_\_

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

- 55) Information can properly be classified in only one way. 55) \_\_\_\_\_

56) All HTML tags come in pairs.

56) \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

57) Use the \_\_\_\_\_ attribute in the body tag to give the background of a Web page a solid color.

57) \_\_\_\_\_

58) href stands for \_\_\_\_\_.

58) \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

59) A search using the keyword AND requires:

59) \_\_\_\_\_

- A) both of the words to be found on the page
- B) one of the words to be found on the page
- C) both words to be found together on the page
- D) none of the above

60) Attributes:

60) \_\_\_\_\_

- A) can be used in any tag
- B) go inside the lead tag
- C) must be nested
- D) all of the above

61) (10 points) Give the HTML commands to create the following webpage:



Some comments:

- The text “Webpage for CS 103” appears in the title bar of the browser.
- The text “Some Random Thoughts” is a level-1 header, which is centered.
- The text “Top Movies in IMDB” and “My School” are level-2 headers.
- The movies are in an ordered list
- The text “Here is a link” is a hyperlink to <http://www.njit.edu>
- There is a horizontal line before the “My School” heading.
- The text under the “My School” heading is in a paragraph.

Give your answer on the following page.



Give your HTML commands here. Be sure to include all of the commands you need to create the given page.