Points missed: _____   Student's Name: _____

Total score: _____ /100 points

East Tennessee State University
Department of Computer and Information Sciences
CSCI 1710/Section 201 – Web Design I
TEST 1 for Fall Semester, 2001

Instructor: David Tarnoff

Read this before starting!

- The total possible score for this test is 100 points.

- This test is closed book and closed notes

- **All** answers **must** be placed in blanks provided. Failure to do so will result in no credit for answer.

- If you perform work on the back of a page in this test, indicate that you have done so in case the need arises for partial credit to be determined.

"Fine print"

Short Answers (2 points each)

1.)   Out of all the combinations of blue, green, and red, what is the total number of web safe colors available for use in an HTML document?

     a. 10   b. 216   c. 256   d. 16,777,216   e. None of the above

2.)   True or false: A URL defined with relative addressing defines the protocol too.

3.)   True or false: GIF87a reduces file size by only allowing web-safe colors in an image.

4.)   True or false: JPEG formats can store transparent backgrounds.

5.)   True or false: JPEG formats can use any of the 16,777,216 (24-bit) colors.

6.)   True or false: An image will appear larger on a monitor with 640x480 resolution than it will on the same monitor with 800x600 resolution.

7.)   True or false: The purpose of anti-aliasing is to down-load images faster.

8.)   In the URL below, underline *only* the server name.

                    http://csciwww.etsu.edu/tarnoff/index.htm,

9.)   Which format degrades more and more each time it is saved?

     a. GIF   b. JPEG   c. Both GIF & JPEG   d. Only GIF87   e. None degrade

10.)   In the HTML color "#ABCDEF", what letter or letters represent the blue component?

Medium-ish Answers (5 points each)

11.)   Write the HTML tag along with the correct attribute to make the background of the entire page 40% red, 20% green, and 100% blue. (This color does translate to a web-safe color.)

12.)   Why must we edit our HTML files in a text editor rather than a word processor such as Word?

13.)   Name two of the three advantages mentioned in class of flexible design over and fixed design.

14.)   List one of the two *advantages* discussed in class to display text in graphics.

15.)   List two of the three arguments discussed in class *against* displaying text in graphics.

16.)   List the two reasons why HTML needed to define character entities.

17.)   Define the term "live space" as it refers to web browsers.

18.)   What is the purpose of dithering?

19.)   There are six levels of web-safe gray including white and black. List their values below.

Long Answers

20.) The code below has six mistakes. ***Correct each of them.*** Note that if an error is with both the begin and end tag of a pair, that is only one mistake. (12 points -- 1 point for each identified, 1 point for each corrected)

```
<html>
<head>
      This is the page's title
<\head>
<body background="#cc3366">
      <center>
            <h1>Page Heading</h1>
      </center>
      <p rectify="center">This paragraph contains a character
      entity &amp: and is meant to be centered.</p>
</html>
```

21.) Write the fragment of HTML code such that an image is used as a link to the URL ***http://www.domain.com*** and the following points are satisfied. (15 points)
  •   Image is at the URL http://www.here.com/home/image/fig1.gif
  •   The HTML code is to be stored in a file at the URL http://www.here.com/home/index.htm
  •   Use a ***relative URL*** to reference the image from the HTML code
  •   The image is 150 pixels wide by 75 pixels high
  •   The colored border that appears when images are used as links should be ***turned off***
  •   The text "Click Here" should appear when the mouse is placed over the image or while the image is loading

22.) In the grid below, draw the location of the image map "hot spot" defined below. (8 points)

```
<AREA SHAPE="POLY" COORDS="5,10,10,20,25,0,25,10,10,25,0,15"
              HREF="http://www.everywhere.com/">
```