

Points missed: _____ Student's Name: _____

Total score: _____ /100 points

East Tennessee State University
Department of Computer and Information Sciences
CSCI 1710/Section 001 – Web Design I
TEST 2 for Fall Semester, 2002

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 space 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”

Academic Misconduct:

Section 5.7 "Academic Misconduct" of the East Tennessee State University Faculty Handbook, June 1, 2001:

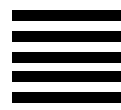
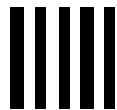
"Academic misconduct will be subject to disciplinary action. Any act of dishonesty in academic work constitutes academic misconduct. This includes plagiarism, the changing or falsifying of any academic documents or materials, cheating, and the giving or receiving of unauthorized aid in tests, examinations, or other assigned school work. Penalties for academic misconduct will vary with the seriousness of the offense and may include, but are not limited to: a grade of 'F' on the work in question, a grade of 'F' of the course, reprimand, probation, suspension, and expulsion. For a second academic offense the penalty is permanent expulsion."

Short Answers (2 points each)

1. How many different colors can be used in a single GIF image?
2. Yes or No: Is your answer to the previous question different if the GIF contains transparent regions? (Don't count the transparency as a color.)
3. What characteristic of an image would make it suitable for a GIF format? Give example.
4. What is the image trait called that gives the user a rough preview of the image as it downloads?
5. _____ uses a pattern of different colored dots from the color palette to approximate a color not found in the palette.
6. _____ softens the jagged edge created by abrupt color changes between two solid colors by placing pixels of gradual color change between them.
7. Check the box for **all** image formats for which each of the following statements is true. JPEG refers to **non**-progressive. (2 points for each statement)

	JPEG	GIF87a	GIF89a
Slowest to uncompress (check only one):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Can display any 24-bit color (i.e., #rrggb):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Limiting the total number of colors in the image reduces file size:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will degrade more and more each time it is saved:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Can indicate that part of the image is transparent:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. Circle the image below that would result in a smaller file size stored in GIF format. (Assume they have identical dimensions.)



9. True or False: An animated GIF can loop infinitely.
10. True or False: Each frame of an animated GIF can have a different display duration.
11. True or False: An animated GIF can be created by combining individual GIFs from different files using a program to create the final animation.
12. True or False: A table can be embedded inside of another table.
13. The table tag attribute and value _____ sets an image as the background of the table?
14. True or False: A background image can be set differently for one cell within a multi-cell table.
15. The table tag attribute and value _____ turns off all of the lines between the cells of a table and the line around the table itself?

16. True or False: The <frameset> tag replaces the <body> tag in an HTML document.
17. Circle **ALL** of the following attributes that are valid for controlling the scrollbars on a frame.
- | | | |
|---------------------|---------------------|-------------------------|
| a. scrolling="auto" | d. scrolling="no" | g. scrolling="verticle" |
| b. scrolling="off" | e. scrolling="yes" | h. noscroll |
| c. scrolling="on" | f. scrolling="none" | i. scrolloff |

Medium-ish Answers (5 points each)

18. If a cell contains absolutely no data, its borders won't appear. How do you get them to appear yet still keep the contents of the cell blank when displayed in the browser?
19. What is the purpose of creating a "phantom" row in your table that doesn't appear in the browser, but instead has a transparent images in each cell set to 1 pixel high and different pixels wide?
20. Write the frameset tag to create a frames page with three columns, the first one 150 pixels wide, the second one using $1/3^{\text{rd}}$ of the remaining space and the last one using $2/3^{\text{rds}}$ of the remaining space from the first column. Do not use percentages for the any of the column definitions.
21. Name one benefit and one drawback of the many we discussed in class of using frames.
22. Give an example of a sequential and discuss why it is appropriate for that application.

Long Answers (points vary)

Questions 23 through 27 are based on the following frame definition.

```
<frameset rows="25%,75%">
  <frame name="heading" src="head.html">
  <frameset cols="34%,33%,33%">
    <frame name="navigation" src="nav.html" noresize>
    <frame name="body1" src="body1.html">
    <frame name="body2" src="body2.html">
  </frameset>
</frameset>
```

23. Sketch the frame resulting from the above code. Be sure to label what is loaded into the different frames and dimension where possible. (5 points)

24. True or False: None of the frame borders can be resized. (2 points)

25. Write the link tag to be placed inside the file nav.html that links to the file new.html where the new.html page will appear in the frame body2. (2 points)

26. Write the link tag to be placed inside the file nav.html that links to the file new.html where the new.html page will appear in a brand new window leaving the old one unchanged. (2 points)

27. Write the link tag to be placed inside the file nav.html that links to the file new.html where the new.html page will appear in the whole window, thereby getting rid of the frames. (2 points)

28. Write the HTML code to create the table below with the following characteristics: (10 points)

- The values inside of the table cells are simply text strings.
- There must be 2 pixels between the edges of adjacent cells
- There must be 3 pixels between the edge of a cell and its contents
- The table's border must be 2 pixels wide
- The table is centered in the browser window and is 325 pixels wide.
- The cell containing "Text 1" is one quarter of the width of the table.
- Special alignment of the text strings:
 - "Heading" is centered horizontally in its cell
 - "Text 1" is right justified and centered vertically in its cell

Heading	
Text 1	Text 2
	Text 3

29. Assume digital photographers make up the majority of the audience for your web page. Describe three characteristics of this audience and exactly how it will affect the design of your site. Be sure your answers address look-n-feel, structure, and content and specifics of how they are affected. Use the back of this page to continue your discussion if you cannot fit it in the space below. (10 points)