CSci 130, Fall 2001, Exam 1

Name (please print): _____ ID #: _____
First Last

- This is a 50-minute closed-book exam. There are 4 questions, worth a total of 87 points (everyone gets 13 free points).
- Please read **all** of the instructions carefully before beginning to work on a problem, and if anything is not completely clear, please raise your hand and ask.

1. ____
2. ____
3. ____
4. ____
+ 13
Total. ☐

Question 1. (22 points) **History**: Fill in the blanks with the appropriate information.

The World Wide Web was designed by _____ at CERN. It was released to the public in the year _____. FTP, which stands for _____, was specified by RFC 454 in the year _____. DNS, which stands for _____, concerns translating _____ into _____, and was introduced in the year _____. Sputnik, which was launched in the year _____, was the name of _____. UUCP stands for _____ and was developed in the year _____. TCP/IP, which stands for _____ / _____, was officially established in the year _____ for ARPANET, which was itself commissioned in the year _____ by ARPA, which itself stands for _____ and was created by the _____. Since its beginning, the growth of the Internet has been exponential until quite recently. The number of hosts on the Internet reached 1,000 in _____, 10,000 in _____, 100,000 in _____, and 1,000,000 in _____.

Question 2. (21 = 3 + 8 + 10 points) **Networking and Protocols.** Suppose that a user without a web browser is interested in requesting the URL

```
http://www.com/files/blank.cgi?x=20&y=10
```

from the indicated server using the `POST` method, and decides to do it using `telnet`, as in Lab 2.

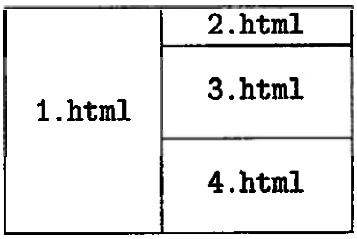
(a) What is the telnet command the user should use?

(b) What is the HTTP request that the user would then have to type?

(c) Assuming that the request for the program `blank.cgi` to be executed is successful and results in the return of a minimal HTML file with title "BLANK" and an empty body, what will the actual contents of this HTTP response be? (You do not have to include any response headers that are not completely determined by the information that you have been given.)

Question 3. (14 points) Give FRAMESET and FRAME declarations that achieve the frame configuration below. In this configuration,

- the frame sources (i.e., the pages displayed in each frame) are the indicated HTML files (i.e., "n`.html`" for $n = 1, 2, 3, 4$),
- the frame on the left (with source `1.html`) takes up 40% of the window's horizontal space,
- the frame on the top-right (with source `2.html`) is 50 pixels high, and
- the remaining space on the right is distributed evenly among the other two frames (with sources `3.html` and `4.html`).



Question 4. (30 points) Give HTML code for the document shown.

Make sure you notice the document title! The text "My Document" is a header. The numbering and bulleting symbols in the lists should be generated automatically by the browser. The underlined text at the bottom should be (as it says) a link to our course homepage. Don't worry about vertical spacing between lines.