Part 1, Question 1 (Multiple Correct, Single Selection)
In a Duke Chronicle article from November 22, 2011 and accessible here: http://dukechronicle.com/article/university-purchases-xxx-urls
Duke's Michael Schoenfeld, vice president of public affairs and government relations, says "We have reserved a number of Duke-related names, things that involve Duke, things that involve Blue Devils". On December 12, the godaddy.com registration site shows that dukefrat.xxx is available for registering for $99.99/year.

Which one of the following is NOT true regarding the name dukefrat.xxx

- The domain dukefrat.xxx can be registered with godaddy.com, but also with other domain name registrars. (30 Responses)
- The use of 'duke' in the domain may be subject to trademark considerations, Duke may request that the name be transferred to Duke, or prevent a site from being deployed, using the legal system. (21 Responses)
- It's possible that the .xxx domains won't succeed except for registrars like godaddy, e.g., see http://bit.ly/vjmF-HY for one point of view. (5 Responses)
- Duke will likely prevent students from accessing .xxx domains as part of ensuring that students are eligible for federally subsidized e-rate internet access. (132 Responses)

Responses 186
% Students All Correct 100

Part 1, Question 2 (Multiple Correct, Single Selection)
Which one of the following is false regarding patents and copyrights?

- Software can be protected by both patent and copyright. (9 Responses)
- Open source companies like Red Hat use both copyright and patents to protect their investments, innovations, and products. (41 Responses)
- The application for copyright protection costs more than the application for patent protection because copyrights last longer than patents. (102 Responses)
- Richard Stallman and the Free Software Foundation rely extensively on copyright law for protection, but do not rely on patents for protection. (36 Responses)

Responses 186
% Students All Correct 100

Part 1, Question 3 (Multiple Correct, Single Selection)
The search query 'gelocate ip' will generate a list of sites that will help determine the geographic location of a specific IP address, e.g., one such site is www.hostip.info. In what country is the IP address 202.179.8.199 located.

- China (1 Response)
- North Korea (1 Response)
- Mongolia (166 Responses)
- Kazakhstan (0 Responses)

Responses 186
% Students All Correct 100
Part 1, Question 4 (Multiple Correct, Single Selection)
Using the website http://www.airsoft.net/countryip facilitates determining the number of IP addresses allocated to a country. In answering this question note that $2^{13}$ is 8192 and $2^{14}$ is 16384 and that $2^{14} + 2^{14} = 2^{15} + 2^{15}$.

How many IP addresses are allocated to Belize (since 2004).

- $2^{14} + 2^{15}$
  - 139 Responses
- $2^{13} + 2^{14}$
  - 10 Responses
- $2^{13} + 2^{15}$
  - 25 Responses
- $2^{15} + 2^{16}$
  - 13 Responses
- $2^{15} + 2^{16}$

Responses 187
% Students All Correct 100

Part 1, Question 5 (Multiple Correct, Single Selection)
According to http://bit.ly/uhwU79 a YouTube blog indicates that 48 hours of video are uploaded every minute (as of May 2011). If that rate is constant over a year, how much video is uploaded in a one year period?

- 26.8 years
  - 3 Responses
- 288 years
  - 6 Responses
- 2680 years
  - 136 Responses
- none of the above.
  - 1 Response

Responses 188
% Students All Correct 100

Part 1, Question 6 (Multiple Correct, Single Selection)
The DMCA provides legal protection related to copyright. Which of the following are aspects of the DMCA that we covered in class this semester.

I. Section 512, the ISP Safe Harbor Provision
II. Section 1301, protection for Boat Hull Design
III. Section 1201, anticircumvention against DRM and other protections

- I only
  - 4 Responses
- III only
  - 13 Responses
- I and III only.
  - 166 Responses
- II and III only
- I, II, and III

Responses 188
% Students All Correct 100
Part 1, Question 7 (Multiple Correct, Single Selection)
The YouTube video with this url [http://www.youtube.com/watch?v=Fzy7oeL8oGE](http://www.youtube.com/watch?v=Fzy7oeL8oGE) contains an identifier that is eleven 'characters' long where each character is either an upper- or lower-case letter or a digit 0-9 for a total of 62 possible 'characters' in the URL. About how many different videos could be stored on YouTube if each is eleven characters long and each character has 62 values as described?

- about $5 \times 10^{19}$: 117 Responses
- about $3 \times 10^{64}$: 32 Responses
- about a billion: 5 Responses
- more than the number of IPv6 addresses: 33 Responses

Responses: 187
% Students All Correct: 100%

Part 1, Question 8 (Multiple Correct, Single Selection)
Guest speaker Kevin Fu talked about medical device- and trustworthy software. Which of the devices and systems listed below is NOT one he mentioned?

- The Thera-25 radiation machine: 35 Responses
- Implantable cardiac defibrillators: 3 Responses
- Infusion pumps: 15 Responses
- Hearing aids: 135 Responses

Responses: 188
% Students All Correct: 100%

Part 1, Question 9 (Multiple Correct, Single Selection)
Duke alum Ge Wang skyped into the class this semester to talk about what he does and how it's related to Comp Sci 82. Which of the following is NOT something that he discussed in reasonable detail with the class?

- The iPhone apps he has helped create: 3 Responses
- The mobile phone orchestras he works with: 1 Response
- The social aspects of the applications he has helped develop: 1 Response
- How much of the profits his company makes are contributed to Duke: 183 Responses

Responses: 188
% Students All Correct: 100%

Part 1, Question 10 (Multiple Correct, Single Selection)
Thomas Narten, an at-large member of the ICANN board and former area-director of the IETF spoke to our class in September. Which of the following best characterizes his talk?

- The characteristics of two different organizations that both have a governance role in how the Internet works and functions: 24 Responses
- The growth and possibilities of the Internet, tempered with the realities of making it work in a changing world: 99 Responses
- The globalization of the Internet and how the US-centric role of the original Internet has shifted over time: 17 Responses
- The demands on Internet infrastructure imposed by the incredible number of devices that are connected each year: 48 Responses

Responses: 189
Part 1, Question 11 (Multiple Correct, Single Selection)
Jennifer Jenkins spoke to our class this semester. Which of the following best characterizes the subject of her talk?

- The evolution of copyright and how digitization, the Internet, and business affect creativity, the law, and technology. 111 Responses

- How work started at Duke and other law schools has transformed how copyright is viewed by academics and industry as it relates to digital creativity. 13 Responses

- The pace of the Internet and how user-generated content and its rapid growth exceed the capabilities of legislative solutions. 60 Responses

- How court cases including Google v. Perfect 10, Sony v. Universal Studios, and Universal v Reimerdes have affected the evolution of copyright law. 4 Responses

Responses 188
% Students All Correct 100

Part 1, Question 12 (Multiple Correct, Single Selection)
In a recorded interview [http://bit.ly/sIL94](http://bit.ly/sIL94) Richard Stallman discusses many things. He claims the Like button on web pages affiliated with Facebook is massive surveillance because “[Facebook] can get the IP address of the computer visiting the page even if the person is not a Facebook user. So you visit several pages that have a like button and Facebook knows that you visited all of those, even if it doesn’t really know who you are.” Which of the following is the best technique to prevent Facebook from knowing your IP address in such situations?

- Use TOR, an anonymous network for browsing. 140 Responses

- Don’t click the ‘like’ button. 43 Responses

- Change your Facebook password regularly. 0 Responses

- Only visit sites that use the Apache webserver. 5 Responses

Responses 188
% Students All Correct 100

Part 1, Question 13 (Multiple Correct, Single Selection)
Which of the following is true about cookies?

I. Cookies are a patented technology, covered by patent 5774670

II. Cookies are small text files stored on your computer

III. Cookies can make web browsing better from a user’s perspective.

- II only 3 Responses

- III only 3 Responses

- II and III only 24 Responses

- I, II, and III 158 Responses

Responses 188
% Students All Correct 100
Part 1, Question 14 (Multiple Correct, Single Selection)
In 2011 roughly 500 million smart phones will be sold world wide. If that rate stayed constant (500 million/year) and each phone gets a new IPv4 address, roughly how many years would it take to allocate every IPv4 address to a smart phone?

- 8 years: 156 Responses
- 80 years: 9 Responses
- 800 years: 10 Responses
- 8000 years: 13 Responses

Responses: 188
% Students All Correct: 100

Part 1, Question 15 (Multiple Correct, Single Selection)
Visiting the website jezebel.com results in third-party cookies (e.g., from doubleclick and atdmt) being stored on your computer as well as cookies from jezebel.com. Roughly how many cookies are stored from jezebel.com when the site is loaded?

- fewer than 15: 27 Responses
- between 15 and 30: 94 Responses
- between 31 and 40: 28 Responses
- more than 40: 38 Responses

Responses: 187
% Students All Correct: 100

Part 1, Question 16 (Multiple Correct, Single Selection)
In the comic above the acronym DRM stands for:

- Domain Registration Mechanism: 5 Responses
- Digital Rights Management: 181 Responses
- Digital Router Machine: 0 Responses
- Domain Name System: 2 Responses

Responses: 188
% Students All Correct: 100