

# INFO 102 Spring 2026 Quiz 3

Name: \_\_\_\_\_

NetID: \_\_\_\_\_

Each question has a box where you should clearly write your answer. If options are listed with letters, put the letter you chose in the box; otherwise put the word or number in the box.

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**Question 1:** 29 days ago it was revealed that the most commonly-used digital certificate checker let people take over computers if they had a certificate with a comma in it. Given that,

- A. Adding a comma is an exploit
- B. Adding a comma is a vulnerability
- C. Both
- D. Neither

**Question 2:** Having your browser remember your passwords is

- A. Safe, like other password managers
- B. Unsafe, it weakens the browser
- C. Unsafe, passwords should stay in human memory not computer

**Question 3:** If key K decrypts signature S to the hash of message M then

- A. K's owner wrote M
- B. M describes K's owner
- C. M was signed by K's owner
- D. S is invalid

**Question 4:** If I figure out how to log in as if I were you, that is a failure of

- A. Authentication
- B. Authorization
- C. Confidentiality
- D. Integrity

**Question 5:** I want to send you a secret, using IP to get it to you.

- A. I should also use a digital certificate to keep it secret
- B. I should also use a hash to keep it secret
- C. I should also use a symmetric cipher to keep it secret
- D. None of the above; IP keeps messages secret for me

**Question 6:** Suppose the IP address of courses.grainger.illinois.edu changed. How would your computer find that out?

- A. It doesn't need to find it out
- B. The courses webserver would tell it
- C. The edu DNS server would tell it
- D. The grainger DNS server would tell it
- E. You'd have to tell it yourself
- F. Your ISP would tell it

**Question 7:** What is something an IP routing server can do without any exploits of vulnerabilities, just using IP's basic structure?

- A. Add you to a botnet
- B. Control what websites you can see
- C. Read your email
- D. See passwords you type in websites

**Question 8:** The following are all true of the cloud; which one makes cloud computing more energy efficient than local computing?

- A. Apps can change which servers they run on as they run
- B. Apps rent, not own, servers
- C. Less-used apps cost less
- D. Servers each hosts multiple apps

**Question 9:** Why do battery chargers include computers?

- A. To control actuators
- B. To interpret sensors
- C. To provide customization or settings
- D. To perform complex computation

**Question 10:** Smart devices are often added to botnets because they are rarely updated and they

- A. Are on the Internet
- B. Are powerful computers for bitcoin mining
- C. Can be used to extort money from their owners
- D. Have access to multiple sensors

**Question 11–12:** What are the two most important tips for computer security?

**Question 13:** If your browser warns you that a website's certificate expired a month ago,

- A. back away: the site has been hacked
- B. be cautious: there's a little risk, but not much
- C. go ahead: that doesn't matter

**Question 14:** I should use TCP if I want

- A. to communicate reliably
- B. to communicate securely
- C. to use URLs instead of IP addresses
- D. to use IP addresses instead of URLs

**Question 15:** Which of the following can you send but not receive because you have an ISP instead of being part of the Internet?

- A. Digital certificates
- B. Diffie-Helmen key exchanges
- C. DNS requests
- D. Messages over IP
- E. TCP packets