

Networking Quiz

(Optional – Complete only if assigned by your instructor)

True/False

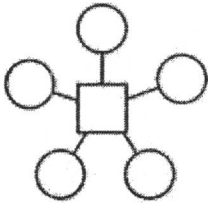
Indicate whether the statement is true or false.

- ___ 1. The device used to connect your home LAN to the Internet is a type of gateway.
- ___ 2. Dial-up Internet services are inexpensive and offer fast access speeds.
- ___ 3. New developments in WiMAX might make mobile enhancements to Wi-Fi unnecessary.
- ___ 4. Web-based e-mail gives you the option of downloading your mail or leaving it on the server.
- ___ 5. If you turn off cookies, you probably will not be able to make online purchases.

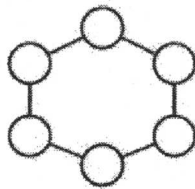
Modified True/False

Indicate whether the statement is true or false. If false, change the identified word or phrase to make the statement true.

- ___ 6. The Internet is the largest example of a(n) LAN. _____



1



2

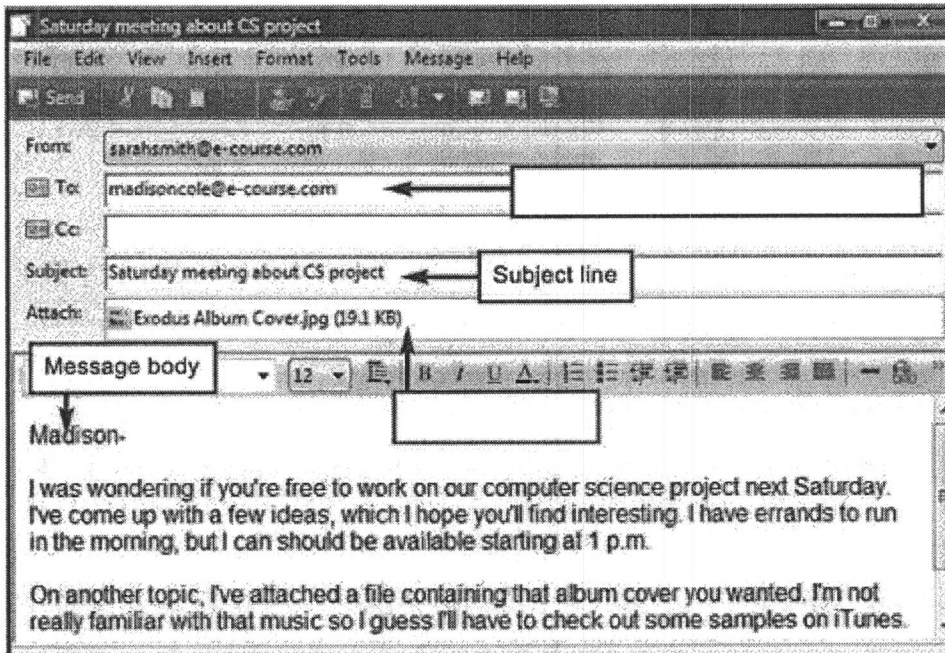


3

- ___ 7. In the accompanying figure, the network marked 2 is configured in a(n) bus topology.

- ___ 8. Downstream speed refers to the rate at which you send data from your computer to the Internet.

- ___ 9. A public IP address is one that can be accessed by packets on the Internet. _____



____ 10. The recipient of the e-mail in the accompanying figure is sarahsmith@e-course.com.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ____ 11. A ____ channel is a physical path or a frequency for signal transmissions.
- | | |
|-------------------|---------------|
| a. logical | c. connecting |
| b. communications | d. node |
- ____ 12. ____ tend to be better candidates for wired networks.
- | | |
|-----------------------|----------------------|
| a. notebook computers | c. PDAs |
| b. handheld computers | d. desktop computers |
- ____ 13. For Internet-based multiplayer games, ____ is usually the limiting factor.
- | | |
|---|---|
| a. the frequency of the wireless signal | c. the speed of the Internet connection |
| b. the brand of network hub | d. the LAN |
- ____ 14. The original wireless encryption was called ____.
- | | |
|--------|---------|
| a. WEP | c. WPA2 |
| b. WPA | d. WSA |
- ____ 15. ____ transforms a message in such a way that its contents are hidden from unauthorized readers.
- | | |
|------------------|------------------|
| a. Encryption | c. Concatenation |
| b. Encapsulation | d. Polymorphism |
- ____ 16. An encrypted message is referred to as ____.
- | | |
|----------------|---------------|
| a. keytext | c. ciphertext |
| b. strong text | d. plaintext |

- _____ 17. A _____ method of breaking strong encryption consists of trying all possible keys.
- a. brute-force
 - b. encapsulated
 - c. symmetric
 - d. signal-based

Case-Based Critical Thinking Questions

Case 1

Thomas is a network expert, having mastered the finer points of network structure, topology, and geographical scope. The different types of networks he has built touch his life at home and at school, as well as his vocations.

- _____ 18. Thomas and a friend have designed a network that is similar to BitTorrent, although it operates on a much smaller scale. What term best describes the network that Thomas and his friend have constructed?
- a. PAN
 - b. LAN
 - c. peer-to-peer
 - d. client/server

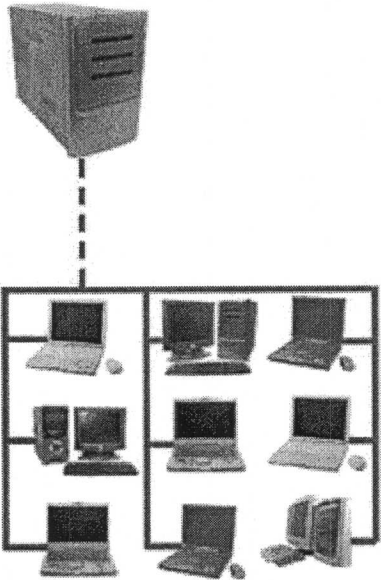
Case-Based Critical Thinking Questions

Case 3

You have just secured a new job with a new firm that has a lot of industrial secrets to protect. Your role is to learn as much as possible about encryption so you can help the firm keep their initiatives confidential until they are released to the market.

- _____ 19. In the context of computing, you can use encryption in all of the following ways EXCEPT _____.
- a. securing credit card numbers transferred from shoppers' computers to e-commerce sites
 - b. scrambling data sent over wired or wireless networks to prevent intrusions
 - c. scrambling the contents of e-mail messages to maintain privacy
 - d. decrypting computer archives so that the data they contain is unusable if the archive is lost or compromised
- _____ 20. If as part of your work you are able to devise a 40-bit key to protect information, how long would it take one of the firm's more devious competitor's PC to crack this key?
- a. one week
 - b. two weeks
 - c. one month
 - d. one year
- _____ 21. If you use public key encryption, after a browser uses the public key to encrypt a credit card number, who can use the public key to decrypt the message?
- a. you
 - b. any user you authorize in the firm
 - c. your network administrator
 - d. no one
- _____ 22. A computer can have a temporarily assigned _____ IP address.
- a. static
 - b. baseline
 - c. contextual
 - d. dynamic
- _____ 23. _____ Internet access links your computer to an ISP from a stationary point, such as a wall socket or roof-mounted antenna.
- a. Locked
 - b. Secure
 - c. Fixed
 - d. Mobile

- ____ 24. Which of the following is an example of mobile Internet access?
 a. Wi-Fi
 b. cellular broadband
 c. mobile WiMAX
 d. all of the above
- ____ 25. One ____ service provider encourages its customers to “Just plug in and jump online anywhere within the service area.”
 a. ISDN
 b. WiMAX
 c. ATA
 d. VoIP
- ____ 26. Which of the following is NOT a factor in the speed of hotspot access?
 a. your distance from the access point
 b. the number of people logged in
 c. the firewalls in use
 d. interference from other networks



- ____ 27. The figure above illustrates the basic architecture of a(n) ____ computing system.
 a. messaging
 b. portal
 c. grid
 d. FTP
- ____ 28. In the late 1990s, ____ burst onto the national scene when college students became aware of a technology called Napster that provided free access to hit songs.
 a. Telnet
 b. FTP
 c. file sharing
 d. Usenet
- ____ 29. A technology called ____ makes it possible for one person's computer to directly access the contents of another person's hard disk.
 a. 4TN
 b. P2P
 c. HTM
 d. URL
- ____ 30. You can use ____ software to open and close ports on your computer.
 a. firewall
 b. DHCP
 c. intrusion
 d. antivirus

Case Based Critical Thinking Questions**Case 3**

Matthew has his new computer system in place and is ready to have an Internet connection. He is overwhelmed by the variety of choices for home Internet connections. For instance, he could choose to connect using an existing telephone line (dial-up) connection. He could also use a cable modem, ISDN (Integrated Services Digital Network), DSL (Digital Subscriber Line), or satellite Internet service.

- _____ 31. Which Internet connection is simplest and least expensive for Matthew because the necessary equipment and software are preinstalled on most new computers?
- a. cable modem
 - b. dial-up
 - c. DSL (Digital Subscriber Line)
 - d. DSS (Digital Satellite Service)
- _____ 32. From his list of types of Internet connections that he is considering, Matthew has eliminated _____ because it provides data transfer speeds of only up to 64 Kbps or 128 Kbps.
- a. cable modem
 - b. satellite
 - c. DSS (Digital Satellite Service)
 - d. ISDN (Integrated Services Digital Network)
- _____ 33. A(n) _____ is a software program that runs on your computer and helps you access Web pages.
- a. explorer
 - b. browser
 - c. navigator
 - d. manager
- _____ 34. A Web page can be stored as a file called a(n) _____ document.
- a. XML
 - b. ISP
 - c. HTML
 - d. HTTP
- _____ 35. If a Web site can gather information that allows a Web server to present ad banners targeted to products you previously purchased at that Web site, it is using _____.
- a. cookies
 - b. plug-ins
 - c. sockets
 - d. style sheets
- _____ 36. Server-side scripts can be written using _____.
- a. Perl
 - b. C++
 - c. Java
 - d. all of the above
- _____ 37. If you want to include a third party on an e-mail message to someone but you do not want the main recipient of your message to know that the third party is included on the message, what do you do?
- a. Cc: the third party on the message
 - b. Bcc: the third party on the message
 - c. Add a priority to the message
 - d. Either a or b
- _____ 38. When you view a page infested with a(n) _____, an HTTP set-cookie request automatically goes to a third-party server, which can be the site of a marketer or hacker.
- a. Flash cookie
 - b. anonymous proxy server
 - c. Web bug
 - d. spam filter
- _____ 39. Antispam software usually includes the technology to block common spams, but you can create your own _____ for spam that that misses.
- a. quick checks
 - b. filters
 - c. keys
 - d. routes

