

# COMPUTER SECURITY (54)

## —OPEN EVENT—

### Regional—2007

Objective Questions (50 @ 10 points each) \_\_\_\_\_ (500 pts.)

**TOTAL POINTS** \_\_\_\_\_ **(500)**

***Failure to adhere to any of the following rules will result in disqualification:***

- 1. Contestant must hand in this test booklet and all printouts. Failure to do so will result in disqualification.***
- 2. No equipment, supplies, or materials other than those specified for this event are allowed in the testing area. No previous BPA tests and/or sample tests or facsimile (handwritten, photocopied, or keyed) are allowed in the testing area.***
- 3. Electronic devices will be monitored according to ACT standards.***

**Do NOT** open test booklet until instructed to do so.

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*Workplace Skills Assessment Program* competition.

True or False:

1. Web browsers use TCP/IP to communicate with Web servers.  
a. True                                      b. False
2. You should change your password no more than once a year.  
a. True                                      b. False
3. *Spoofing* is the process of fooling another computer by pretending to send packets from a legitimate source.  
a. True                                      b. False
4. *WEP* stands for Wireless Execution Privacy.  
a. True                                      b. False
5. Stealth viruses hide inside another legitimate program or data file.  
a. True                                      b. False
6. Encoding data converts *ciphertext* into *plaintext*.  
a. True                                      b. False
7. *Articulation* is the process of identifying an individual based on user name and password.  
a. True                                      b. False
8. Boot sector viruses attach themselves to a file or program and activate anytime the file is used.  
a. True                                      b. False
9. An ISP, or Internet Service Provider, is a company that has the servers, routers, communication lines and other equipment necessary to establish a presence on the Internet.  
a. True                                      b. False
10. *EULA* stands for End User Language Administrator.  
a. True                                      b. False
11. In order to communicate using TCP/IP each Host must have a unique IP address.  
a. True                                      b. False
12. Certificates may be stored on your computer's hard disk or on smart cards or other security devices attached to your computer.  
a. True                                      b. False
13. If the URL for a web site begins with *https://*, the web site does not have a certificate.  
a. True                                      b. False
14. The presence of a CA certificate in this list guarantees that the certificates it issues can be trusted.

- a. True                                      b. False
15. Unauthorized users can originate from inside or outside an organization.  
a. True                                      b. False
16. Single-user computer systems are for in-home use only.  
a. True                                      b. False
17. A software worm is the same thing as a virus.  
a. True                                      b. False
18. Junk mail or unsolicited e-mail messages sent to computer users are known as *turkeys*.  
a. True                                      b. False
19. A proxy can be set up to make a URL check, which will disallow packets to and from off-limits Web sites.  
a. True                                      b. False
20. Small files stored on your hard drive by Web sites that are visited are called *cookies*.  
a. True                                      b. False

**Multiple Choice**

**Choose the best answer and mark the appropriate letter on your Scantron form.**

21. Which of these is **NOT** a method to ensure Internet security:  
a. use a firewall  
b. keep all application, including your operating system, patched  
c. disable scripting features in e-mail programs  
d. all of these are methods to ensure Internet security
22. \_\_\_\_\_ software acts as a guard against unwanted network packets.  
a. firefall  
b. firewall  
c. wildfire  
d. firestarter
23. The IP address is made up of \_\_\_\_\_ blocks of three numbers between 0 and 255.  
a. 2  
b. 3  
c. 4  
d. 5

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24. \_\_\_\_\_ act as an intermediary between internal computers and external networks by receiving and selectively blocking data packets.
- a. Broadband routers
  - b. Proxy servers
  - c. Wireless connectors
  - d. None of the above
25. To deploy both firewalls and proxy servers to work in tandem, both softwares must installed on a(n) \_\_\_\_\_.
- a. server gateway
  - b. connectivity gateway
  - c. broadband router
  - d. HTTP download
26. *TCP/IP* stands for:
- a. Transmission Communication Procedure/Internet Procedure
  - b. Transmission Connection Procedure/Internet Procedure
  - c. Transmission Communication Protection/Internet Protection
  - d. Transmission Control Protocol/Internet Protocol
27. \_\_\_\_\_ is encoding text or data so that those who should not see or hear it cannot do so.
- a. Encryption
  - b. Enlisting
  - c. Erasure
  - d. Extraction
28. Which of the following is **NOT** a type of computer virus:
- a. Nuisance Virus
  - b. Data-Destructive Virus
  - c. Espionage Virus
  - d. Epstein-Barr Virus
29. Which of the following are one of the three main functions of a proxy server?
- a. firewalling and filtering
  - b. connection sharing
  - c. caching
  - d. all of the above
30. A(n) \_\_\_\_\_ is a user ID and password that provide the highest level of authorization.
- a. system key
  - b. ultimate code
  - c. system backdoor
  - d. security keyhole

31. A sudden rise or fall in power levels that can permanently damage hardware is called a \_\_\_\_\_.  
a. surge protector  
b. power spike  
c. uninterruptible power supply  
d. none of the above
32. Which of the following is an element of an effective Disaster Recovery Plan?  
a. on-system back-up documents  
b. passwords  
c. ethical computer use  
d. redundant systems
33. Which of the following identifiers can be used with biometric authentication?  
a. fingerprint  
b. retinal patterns  
c. both a and b  
d. neither a nor be
34. A(n) \_\_\_\_\_ is a computer code that can damage or destroy valuable programs and data.  
a. disease file  
b. umbrella file  
c. cyber key  
d. virus
35. Which of the following is a common type of encryption:  
a. secret key  
b. public key  
c. neither a nor b  
d. both a and b
36. A \_\_\_\_\_ works by isolating OS functions into separate compartments and restricting the ability of unauthorized users to access key areas of the system.  
a. MOS  
b. TOS  
c. BOS  
d. POS
37. Which of these actions will **NOT** increase the security of your web browsing?  
a. learn to recognize common scams  
b. manage user names and passwords  
c. only browse secure Web sites  
d. save documents in Desktop folders only

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38. Three common types of permissions within password-protected shares are:  
(select three)  
a. read-only  
b. full  
c. depends on password  
d. security enhancement
39. *NAT* stands for:  
a. Network Access Transcription  
b. Network Address Translation  
c. Network Administrator Transmission  
d. Network Activity Transcript
40. \_\_\_\_\_ protect a network by shielding the internal IP addresses from the outside world.  
a. POS  
b. read-only files  
c. NAT  
d. logon attempts
41. \_\_\_\_\_ grant access to view, edit, add or delete documents to certain users or groups.  
a. Directory elements  
b. Utilities  
c. Shareware  
d. Permissions
42. The \_\_\_\_\_ of the Internet is the collection of major communications pipelines that transfer the data from one end of the world to the other.  
a. backbone  
b. skeleton  
c. scaffolding  
d. support
43. \_\_\_\_\_ is a programming error which may result in a memory access exception, program termination or a breach of system security.  
a. Buffer overflow  
b. Network disconnect  
c. System overflow  
d. none of the above
44. The process of \_\_\_\_\_ is identifying exactly what a specific machine will be used for and removing or disabling all system components not necessary for that function.  
a. streamlining  
b. focusing  
c. hardening  
d. coaching

45. A \_\_\_\_\_ is a distributed system consisting of loosely coupled computers and other devices.  
a. computer link  
b. network  
c. chain  
d. none of the above
46. A storage area in computer memory is called a(n) \_\_\_\_\_.  
a. cell  
b. cache  
c. analog  
d. router
47. A device that measures a feature of the human anatomy or a human behavioral trait in order to identify individuals is called a \_\_\_\_\_.  
a. certificate program  
b. button  
c. biometric device  
d. beta test
48. Data that has become unreadable, incomplete or damaged is \_\_\_\_\_.  
a. corrupt  
b. compressed  
c. customized  
d. collective
49. In a centralized computer network model, those computers dependent on the master computer are called \_\_\_\_\_.  
a. subjects  
b. partners  
c. surrogates  
d. elements
50. A set of rules and procedures for exchanging information between network devices and computers is called \_\_\_\_\_.  
a. prototype  
b. protocol  
c. project plan  
d. processor