

COMPUTER SECURITY

(320)

REGIONAL – 2017

TOTAL POINTS _____ (500 points)

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.**

No more than sixty (60) minutes testing time

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Identify the letter of the choice that best completes the statement or answers the question.
Mark A if the statement is True. Mark B if the statement is False.

1. _____ attacks occur when a person is tricked into sharing confidential information with a hacker.
 - a. Manipulative engineering
 - b. Manipulative networking
 - c. Social networking
 - d. Social engineering

2. A problem with _____ exists when you access your bank account, and it shows that you have a higher balance than you expected.
 - a. data management
 - b. data auditing
 - c. data integrity
 - d. confidentiality

3. _____ can be used to limit access to specific applications to *only* those people who need it.
 - a. Permissions
 - b. Training
 - c. Audits
 - d. Reviews

4. When you receive spam sent to your instant message screen name, it is called _____.
 - a. spIM
 - b. spChat
 - c. spAT
 - d. a zombie

5. A _____ is a copy of Windows system files and configuration settings that allows you to recover your system at that time.
 - a. system point
 - b. restore point
 - c. system status
 - d. restore time

6. The detrimental result of adware is the resultant loss of _____.
 - a. applications
 - b. time
 - c. files
 - d. space

7. System Restore can be used to _____.
 - a. recover user files
 - b. develop a backup plan
 - c. revert system files and the registry to a restore point
 - d. schedule a backup of your entire system

8. Which of the following is an important consideration when determining what type of media to use in your backup plan?
 - a. file size and file type
 - b. file type only
 - c. file location
 - d. file size only

9. When you purchase a router, the default password is most likely *not* a secure string.
 - a. True
 - b. False

10. When you connect to a public hotspot that does *not* enforce security, _____.
 - a. another user can take over your computer
 - b. anything you transmit can be intercepted
 - c. all of your information is still secure
 - d. your passwords are still secure

11. When you make changes to the router settings, you will have to enter a(n) _____ in order to access the router configuration.
 - a. MAC address
 - b. SSID
 - c. WPA2 security code
 - d. administrator username and password

12. Which of the following is *not* one of the options that can be set in the Miscellaneous category for custom security?
 - a. downloading HTML fonts
 - b. allowing drag-and-drop for files
 - c. running scripts for web browser control
 - d. using a pop-up blocker

13. A website in the _____ zone contains content that may damage your computer.
 - a. restricted sites
 - b. local intranet
 - c. blocked sites
 - d. allowed sites

14. Which icon is displayed by the web browser when secure communication has been established between the website and browser?
- smiley face
 - thumbs up
 - padlock
 - none
15. If a password contains _____, it is less secure.
- an ampersand
 - repeating characters
 - an exclamation point
 - dollar signs in place of the letter "S"
16. The _____ command displays the path a packet takes, from source to destination.
- NETSTAT
 - TRACERT
 - PING
 - IPCONFIG
17. The decimal equivalent of b100110 is _____.
- 38
 - 62
 - 85
 - 52
18. Which of the following is *not* displayed in the results from a successful ping?
- the number of packets sent
 - the IP address of the source device
 - the IP address of the destination device
 - a summary of trip times
19. Which of the following is *not* true with relation to the DMZ?
- It can be used to house the DNS server.
 - The DMZ is located between the Untrusted Zone and the Trusted Zone.
 - It should be created by using two firewalls from the same manufacturer.
 - The hardened server is placed in the DMZ.
20. A host-based IDS can be used to monitor _____.
- a single computer
 - the DMZ
 - the entire network
 - the Trusted Zone

21. Which of the following is *not* a zone created when using two firewalls for security?
- Trusted Zone
 - DMZ
 - Untrusted Zone
 - Secure Zone
22. The _____ virus attacked computers by executing a mass-mailing macro virus.
- WindowsMacro
 - ILOVEYOU
 - Bill
 - Melissa
23. WEP encryption does *not* use static keys.
- True
 - False
24. You can create system image and system repair discs from _____.
- Windows Recovery Center
 - Backup and Restore
 - the Action Center
 - Windows Media Center
25. WPA uses the _____ encryption method.
- MAC
 - WEP
 - TKI
 - TKIP
26. _____ restrict(s) software trying to execute from web pages.
- Secure Zone
 - Protected Mode
 - Defense Rules
 - Safe Mode
27. The protocol that is used to convert IP addresses to physical addresses is _____.
- ARP
 - TCP
 - POP
 - IP
28. The _____ creates the boundary between the DMZ and the internal network.
- hardened server
 - back-end firewall
 - front-end firewall
 - proxy server

29. Which of the following is an example of a MAC address?
- 192.168.1.1
 - MyWiFi
 - 00:2F:6A:D5:C3:2B
 - 802.11
30. When you type a(n) _____ into the address bar, it is used by the web browser to identify the web page you want to view.
- DNS
 - HTML
 - URL
 - DHCP
31. The _____ address, the last IP address in a network segment, is used to communicate with all devices on a network.
- device
 - network
 - broadcast
 - host
32. A network-based IDS looks for _____ to determine if an attack is occurring.
- incomplete packets and traffic patterns
 - incomplete packets
 - network anomalies
 - network patterns and network anomalies
33. Physical security protects _____.
- hardware, software, personnel, and information
 - hardware
 - hardware, software, and information
 - hardware and software
34. Phishing attacks are limited to email and instant messages.
- True
 - False
35. Many browsers include the ability to block pop-ups.
- True
 - False
36. A wireless router can combine the functionality of a router, an access point, and a switch in one device.
- True
 - False

37. Parental Controls allow you to set controls on a Guest account for others to use to access the Internet.
- True
 - False
38. TCP is a connectionless protocol.
- True
 - False
39. A program that gives the attacker remote access control of your computer is specifically called a _____.
- Trojan horse
 - RAT
 - spyware program
 - cookie
40. Which of the following are ways that trade secret espionage occur?
- By bribing an employee
 - Theft through interception
 - Neither A nor B
 - Both A and B
41. To obtain IP addresses through reconnaissance, an attacker can use _____.
- a chain of attack computers
 - IP address spoofing
 - both A and B
 - neither A nor B
42. _____ audits are done by an organization on itself.
- Internal
 - External
 - both A and B
 - neither A nor B
43. _____ requires multiple countermeasures to be defeated for an attack to succeed.
- Defense in depth
 - Weakest link analysis
 - both A and B
 - neither A nor B
44. A digital certificate _____.
- indicates that the person or firm named in the certificate is reasonably trustworthy
 - gives the subject's public key
 - both A and B
 - neither A nor B

45. _____ is the use of mathematical operations to protect messages travelling between parties or stored on a computer.
- Cryptography
 - Confidentiality
 - Encryption
 - Authentication
46. Digital signatures provide _____.
- message authentication
 - message integrity
 - both A and B
 - neither A nor B
47. Ensuring appropriate network _____ means preventing attackers from altering the capabilities or operation of the network.
- confidentiality
 - availability
 - integrity
 - functionality
48. A _____ is an older attack that uses an illegally large IP packet to crash an operating system.
- smurf flood
 - ping of death
 - P2P redirect
 - none of the above
49. If a laptop needs to be taken off premises, _____.
- all sensitive information should be removed
 - it should be logged in when returned
 - it should first be logged out
 - all of the above
50. _____ record(s) and analyzes what a person or program actually did.
- Auditing
 - Authorizations
 - Authentication
 - All of the above