

IC32 - Pre-Instructional Survey

1. What is the primary function of a firewall?
 - a. Block all internet traffic
 - b. Detect network intrusions
 - c. Filters network traffic
 - d. Authenticate users

2. Inter-network connection device that restricts data communication traffic between two connected networks is called a(n) _____.
 - a. IDS
 - b. Firewall
 - c. Router
 - d. Anti-virus software

3. The process of securing a system by reducing its attack surface is known as
 - a. Threat Modeling
 - b. System Hardening
 - c. Intrusion Detection
 - d. Whitelisting

4. Policies, procedures and technical controls that govern the use of system resources are known as
 - a. Data Flow Controls
 - b. System Integrity Controls
 - c. Access Controls
 - d. System Hardening Controls

5. Which of the following is an objective of cybersecurity acceptance testing?
 - a. Verification of cybersecurity specifications
 - b. Root cause analysis
 - c. Cyber risk determination
 - d. Verification of system functionality

IC32 - Pre-Instructional Survey

6. What are the three main phases of the IACS Cybersecurity Lifecycle?
 - a. Assess, Develop & Mitigate, Maintain
 - b. Design, Implement, Maintain
 - c. Assess, Develop & Implement, Maintain
 - d. Design, Mitigate, Maintain

7. Which of the following is the correct risk equation?
 - a. Risk = Threat x Asset x Consequence
 - b. Risk = Threat x Vulnerability x Cost
 - c. Risk = Threat Agent x Threat x Vulnerability
 - d. Risk = Threat x Vulnerability x Consequence

8. The desired level of security for a system is known as?
 - a. Target Security Level
 - b. Achieved Security Level
 - c. Capability Security Level
 - d. Protection Level

9. Which of the following is the correct formula for Cyber Risk Reduction Factor (CRRF)?
 - a. $CRRF = \text{Unmitigated Risk} / \text{Tolerable Risk}$
 - b. $CRRF = \text{Mitigated Risk} / \text{Tolerable Risk}$
 - c. $CRRF = \text{Tolerable Risk} / \text{Unmitigated Risk}$
 - d. $CRRF = \text{Tolerable Risk} / \text{Mitigated Risk}$

10. An Intrusion Detection System (IDS) is an example of what method of treating risk?
 - a. Detect
 - b. Deter
 - c. Defend
 - d. Defeat

IC32 - Pre-Instructional Survey

11. Security service system that monitors and analyzes system events for the purpose of finding, and providing real-time or near real-time warning of attempts to access system resources in an unauthorized manner is called a(n) _____.
 - a. IDS
 - b. Firewall
 - c. Router
 - d. Anti-virus software

12. What is the name of the firewall feature that analyzes protocols at the application layer to identify malicious or malformed packets?
 - a. Stateful inspection
 - b. Deep packet inspection
 - c. Packet filter
 - d. Layer 3 check

13. A three-tier network segmentation design that prevents direct communication between the enterprise network and the process control network by creating a buffer is also known as a(n) _____.
 - a. Zones and conduits
 - b. Perimeter firewall
 - c. ICS firewall
 - d. DMZ

14. Which of the following represents the recommended process of firewall planning and implementation?
 - a. Plan, Configure, Test, Deploy, Manage
 - b. Plan, Configure, Deploy, Test, Manage
 - c. Plan, Deploy, Manage, Test, Configure
 - d. Design, Configure, Test, Deploy, Document

15. What are the main types of intrusion detection systems?
 - a. Perimeter Intrusion Detection & Network Intrusion Detection
 - b. Host Intrusion Detection & Network Intrusion Detection
 - c. Host Intrusion Detection & Intrusion Prevention Systems
 - d. Intrusion Prevention & Network Intrusion Detection

16. What is the desired outcome of the Initiate a CSMS program activity?
- Conceptual diagrams that show how an AD forest can be attacked
 - Obtain leadership commitment, support, and funding
 - Identify software agents used by threat agents to propagate attacks
 - Conduct periodic IACS conformance audits
17. Which of the following is NOT a network device hardening best practice?
- Install latest firmware updates
 - Shut down unused physical interfaces
 - Enable logging, collect logs (e.g. Syslog) and review regularly
 - Use Telnet for remote management
18. Which of the following is an example of dual-factor authentication?
- Username and password
 - Digital certificate and smart card
 - Fingerprint and retinal signature
 - Fingerprint and smart card
19. A network that uses a public telecommunication infrastructure such as the Internet to provide remote networks or computers with secure access to another network is known as a _____.
- VLAN
 - VSAT
 - VPN
 - VNC
20. If a virus shuts down an industrial network by overloading the Ethernet switches which basic information security property is affected?
- Integrity
 - Confidentiality
 - Availability
 - Reliability

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Answer Key

1. c

2. b

3. b

4. c

5. a

6. c

7. d

8. a

9. a

10. a

11. a

12. b

13. d

14. a

15. b

16. b

17. d

18. d

19. c

20. c