

IC32C - Pre-Instructional Survey

Name _____ Date _____

1. The biggest reason why hacking is becoming easier for new recruits is:
 - a. Computer systems out now are much easier to penetrate
 - b. Old-time hackers will more readily “mentor” new recruits
 - c. Illegal hacker “how-to” books are now circulated widely
 - a. New recruits can download “point-and-click” tools from hacking websites.

2. If a virus shuts down an industrial network by over loading the Ethernet switches, which basic security property is affected?
 - a. Usability
 - b. Availability
 - c. Integrity
 - d. Reliability

3. What is a task associated with personnel security?
 - a. Protecting plant employees from physical attack and other crimes.
 - b. Making sure the premises are secure when people leave the plant.
 - c. Doing background checks of all employee and contractor new hires.
 - d. Hiring guard services to adequately patrol all plant areas.

4. Why do computer programs with millions of lines of code present security problems?
 - a. Many lines of code make bugs and security vulnerabilities more likely.
 - b. Many lines of code make programs run slower, making real-time detection of security vulnerabilities difficult.
 - c. Many lines of code make it difficult for cybersecurity screeners to locate hidden viruses and other malicious code
 - d. Security violation detectors can only process finite chunks of programming code at one time.

5. Fences, security guards, and burglar alarms represent:
 - a. Personnel security countermeasures
 - b. Physical security measures
 - c. Anti-intrusion countermeasures
 - d. The security perimeter

6. "Countermeasures" in cybersecurity are measures taken to:
 - a. Eliminate system penetration by outsiders
 - b. Confuse radar-based perimeter intrusion detectors
 - c. Lessen the risks from cyber events
 - d. Eliminate the risk of an inside attacker taking over a computer network
7. One way safety is different from security in industrial plants is that:
 - a. Safety considers the effects of malicious actions, not just the causes.
 - b. The field of safety encompasses the field of security.
 - c. Safety concerns itself with human error and the natural causes of accidents, while security may involve malicious behavior.
8. Why would a company issue security policies for industrial networks?
 - a. To let outside intruders know the consequences of their actions.
 - b. To clearly establish which department "owns" the network
 - c. To guide a company's cybersecurity department on how to catch security violations.
 - d. To take a company position on what is required from all network users and administrators to keep the network secure.

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1. d
2. b
3. c
4. a
5. b
6. c
7. c
8. d