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