**Chapter 6 - Physical Security Answers**

1. Which fire class can water be most appropriate for?
   1. **Class A fires**
   2. Class B fires
   3. Class C fires
   4. Class D fires
2. What mechanism automatically causes an alarm originating in a data center to be transmitted over the local municipal fire or police alarm circuits for relaying to both the local police/fire station and the appropriate headquarters?
   1. Central station alarm
   2. Proprietary alarm
   3. A remote station alarm
   4. **An auxiliary station alarm**
3. Which issue when selecting a facility site deals with the surrounding terrain, building markings and signs, and high or low population in the area?
   1. surrounding area and external entities
   2. natural disasters
   3. accessibility
   4. **visibility**
4. Which of the following is the preferred way to suppress an electrical fire?
   1. **CO2 or Halon**
   2. CO2, soda acid, or Halon
   3. water or soda acid
   4. co2 or soda acid
5. While referring to Physical Security, what does Positive pressurization means?
   1. The pressure inside your sprinkler system is greater than zero.
   2. **The air goes out of a room when a door is opened and outside air does not go into the room**
   3. Causes the sprinkler system to go off
   4. A series of measures that increase pressure on employees in order to make them more productive.
6. At which temperature does damage start occurring to magnetic media?
   1. **100 degrees**
   2. 125 degrees
   3. 150 degrees
   4. 175 degrees
7. Which of the following questions is less likely to help in assessing physical access controls?
   1. Does management regularly review the list of persons with physical access to sensitive facilities?
   2. **Is the operating system configured to prevent circumvention of the security software and application controls?**
   3. Are keys or other access devices needed to enter the computer room and media library?
   4. Are visitors to sensitive areas signed in and escorted?
8. In a dry pipe system, there is no water standing in the pipe - it is being held back by what type of valve?
   1. Relief valve
   2. Emergency valve
   3. Release valve
   4. **Clapper valve**
9. If the floor is a concrete slab, the concerns are the physical weight it can bear and its fire rating. Known as loading, this type of floor must be capable of a live load of?
   1. 250 pounds per square foot
   2. **150 pounds per square foot**
   3. 350 pounds per square foot
   4. 450 pounds per square foot
10. Which of the following suppresses combustion through a chemical reaction that kills the fire?
    1. **Halon**
    2. CO2
    3. water
    4. soda acid
11. Which of the following floors would be most appropriate to locate information processing facilities in a 6-stories building?
    1. Basement
    2. Ground floor
    3. **Third floor**
    4. Sixth floor
12. The recording of events with a closed-circuit TV camera is considered a:
    1. Preventative control.
    2. **Detective control.**
    3. Compensating control.
    4. Corrective control.
13. Which of the following is a proximity identification device that does not require action by the user and works by responding with an access code to signals transmitted by a reader?
    1. A passive system sensing device
    2. **A transponder**
    3. A card swipe
    4. A smart card
14. According to ISC2, what should be the fire rating for the walls of an information processing facility?
    1. All walls must have a one-hour minimum fire rating.
    2. **All walls must have a one-hour minimum fire rating, except for walls to adjacent rooms where records such as paper and media are stored, which should have a two-hour minimum fire rating.**
    3. All walls must have a two-hour minimum fire rating.
    4. All walls must have a two-hour minimum fire rating, except for walls to adjacent rooms where records such as paper and media are stored, which should have a three-hour minimum fire rating.
15. Under what conditions would the use of a Class C fire extinguisher be preferable to a Class A extinguisher?
    1. When the fire involves paper products
    2. When the fire is caused by flammable products
    3. **When the fire involves electrical equipment**
    4. When the fire is in an enclosed area
16. The main risks that physical security components combat are all of the following EXCEPT:
    1. **SYN flood**
    2. physical damage
    3. theft
    4. availability
17. Which type of fire extinguisher is most appropriate for an information processing facility?
    1. Type A
    2. Type B
    3. **Type C**
    4. Type D
18. Which of the following statements pertaining to secure information processing facilities is incorrect?
    1. Walls should have an acceptable fire rating.
    2. **Windows should be protected with bars.**
    3. Doors must resist forcible entry.
    4. Location and type of fire suppression systems should be known.
19. What static charge is able to cause disk drive data loss?
    1. 550 volts
    2. 1000 volts
    3. **1500 volts**
    4. 2000 volts
20. Which of the following is not EPA-approved replacements for Halon?
    1. Water
    2. Argon
    3. NAF-S-III
    4. **Bromine**
21. Guards are appropriate whenever the function required by the security program involves which of the following?
    1. **The use of discriminating judgment**
    2. The use of physical force
    3. The operation of access control devices
    4. The need to detect unauthorized access
22. Examples of types of physical access controls include all except which of the following?
    1. badges
    2. locks
    3. guards
    4. **passwords**
23. Which of the following controls related to physical security is not an administrative control?
    1. Personnel controls
    2. **Alarms**
    3. Training
    4. Emergency response and procedures
24. Which of the following fire extinguishing systems is currently the most recommended water system for a computer room?
    1. Wet pipe
    2. Dry pipe
    3. Deluge
    4. **Preaction**
25. A momentary low voltage is a:
    1. spike
    2. blackout
    3. **sag**
    4. fault
26. How should a doorway with automatic locks to a man-operated information processing facility be configured?
    1. It should be configured to be fail-secure.
    2. **It should be configured to be fail-safe.**
    3. It should have a door delay cipher lock.
    4. It should not allow piggybacking.
27. A prolonged high voltage is a:
    1. spike
    2. blackout
    3. **surge**
    4. fault
28. To be in compliance with the Montreal Protocol, which of the following options can be taken to refill a Halon flooding system in the event that Halon is fully discharged in the computer room?
    1. Order an immediate refill with Halon 1201 from the manufacturer.
    2. **Contact a Halon recycling bank to make arrangements for a refill.**
    3. Order a different chlorofluorocarbon compound from the manufacturer.
    4. Order an immediate refill with Halon 1301 from the manufacturer.
29. Which of the following is an administrative control for physical security?
    1. lighting
    2. fences
    3. **training**
    4. facility construction materials
30. The National Institute of Standards and Technology (NIST) standard pertaining to perimeter protection states that critical areas should be illuminated up to?
    1. Nine feet high and three feet out
    2. Eight feet high and three feet out
    3. **Eight feet high and two feet out**
    4. Nine feet high and two feet out
31. Electrical systems are the lifeblood of computer operations. The continued supply of clean, steady power is required to maintain the proper personnel environment as well as to sustain data operations. Which of the following is not an element that can threaten power systems?
    1. Noise
    2. Humidity
    3. Brownouts
    4. **UPS**
32. Which of the following statements pertaining to air conditioning for an information processing facility is correct?
    1. The AC units must be controllable from outside the area.
    2. The AC units must keep negative pressure in the room so that smoke and other gases are forced out of the room.
    3. The AC units must be on the same power source as the equipment in the room to allow for easier shutdown.
    4. **The AC units must be dedicated to the information processing facility.**
33. A prolonged power supply that is below normal voltage is a:
    1. **brownout**
    2. blackout
    3. surge
    4. fault
34. Which of the following related to physical security is not considered a technical control?
    1. Access controls
    2. Intrusion detection
    3. Fire detection and suppression
    4. **Locks**
35. A momentary high voltage is a:
    1. **spike**
    2. blackout
    3. surge
    4. fault
36. Which of the following statements pertaining to fire suppression systems is true?
    1. Halon is commonly used because it is highly effective in the fact that it interferes with the chemical combustion of the elements within a fire.
    2. Gas masks provide an effective protection against use of CO2 systems.
    3. **CO2 systems are effective because they suppress the oxygen supply required to sustain the fire.**
    4. Soda acid is an effective fire suppression method for class C (electrical) fires.
37. Which of the following is a class A fire?
    1. **common combustibles**
    2. liquid
    3. electrical
    4. Halon
38. Which of the following represents a prolonged high voltage?
    1. A power spike
    2. **A power surge**
    3. A power fault
    4. A power sag
39. Which of the following is electromagnetic interference (EMI) that is noise from the radiation generated by the difference between the hot and neutral wires?
    1. **traverse-mode noise**
    2. common-mode noise
    3. crossover-mode noise
    4. transversal-mode noise
40. Which of the following is true about a "dry pipe" sprinkler system?
    1. It is a substitute for carbon dioxide systems.
    2. It maximizes chances of accidental discharge of water.
    3. **It minimizes chances of accidental discharge of water.**
    4. It uses less water than "wet pipe" systems.
41. Critical areas should be lighted:
    1. **Eight feet high and two feet out.**
    2. Eight feet high and four feet out.
    3. Ten feet high and four feet out.
    4. Ten feet high and six feet out.
42. What category of water sprinkler system is currently the most recommended water system for a computer room?
    1. Dry Pipe sprinkler system
    2. Wet Pipe sprinkler system
    3. **Preaction sprinkler system**
    4. Deluge sprinkler system
43. Which of the following is not a physical control for physical security?
    1. lighting
    2. fences
    3. **training**
    4. facility construction materials
44. The most prevalent cause of computer center fires is which of the following?
    1. AC equipment
    2. **electrical distribution systems**
    3. heating systems
    4. natural causes
45. Which of the following measures would be the BEST deterrent to the theft of corporate information from a laptop which was left in a hotel room?
    1. Store all data on disks and lock them in an in-room safe.
    2. Remove the batteries and power supply from the laptop and store them separately from the computer.
    3. Install a cable lock on the laptop when it is unattended.
    4. **Encrypt the data on the hard drive.**
46. Which of the following is NOT a system-sensing wireless proximity card?
    1. **magnetically striped card**
    2. passive device
    3. field-powered device
    4. transponder
47. What can be defined as a momentary low voltage?
    1. Spike
    2. **Sag**
    3. Fault
    4. Brownout
48. Which of the following protection devices is used for spot protection within a few inches of the object, rather than for overall room security monitoring?
    1. Wave pattern motion detectors
    2. **Capacitance detectors**
    3. Field-powered devices
    4. Audio detectors
49. What is a common problem when using vibration detection devices for perimeter control?
    1. **They are vulnerable to non-adversarial disturbances.**
    2. They can be defeated by electronic means.
    3. Signal amplitude is affected by weather conditions.
    4. They must be buried below the frost line.
50. The environment that must be protected includes all personnel, equipment, data, communication devices, power supply and wiring. The necessary level of protection depends on the value of the data, the computer systems, and the company assets within the facility. The value of these items can be determined by what type of analysis?
    1. Critical-channel analysis
    2. Covert channel analysis
    3. **Critical-path analysis**
    4. Critical-conduit analysis
51. What fencing height is likely to stop a determined intruder?
    1. 3' to 4' high.
    2. 6' to 7' high.
    3. 8' high and above with strands of barbed wire.
    4. **No fence can stop a determined intruder.**
52. Which of the following questions is less likely to help in assessing physical and environmental protection?
    1. Are entry codes changed periodically?
    2. Are appropriate fire suppression and prevention devices installed and working?
    3. **Are there processes to ensure that unauthorized individuals cannot read, copy, alter, or steal printed or electronic information?**
    4. Is physical access to data transmission lines controlled?
53. A momentary power outage is a:
    1. spike
    2. blackout
    3. surge
    4. **fault**
54. Which of the following risk will most likely affect confidentiality, integrity and availability?
    1. Physical damage
    2. Unauthorized disclosure of information
    3. Loss of control over system
    4. **Physical theft**
55. Which of the following suppresses the fuel supply of the fire?
    1. **soda acid**
    2. CO2
    3. Halon
    4. water
56. Which of the following is NOT a precaution you can take to reduce static electricity?
    1. **power line conditioning**
    2. anti-static sprays
    3. maintain proper humidity levels
    4. anti-static flooring
57. Which of the following is NOT a type of motion detector?
    1. **photoelectric sensor**
    2. wave pattern
    3. capacitance
    4. audio detector
58. The ideal operating humidity range is defined as 40 percent to 60 percent. High humidity (greater than 60 percent) can produce what type of problem on computer parts?
    1. Static electricity
    2. **Electro-plating**
    3. Energy-plating
    4. Element-plating
59. The following are fire detector types EXCEPT:
    1. smoke activated
    2. flame actuated
    3. **acoustical-seismic detection system**
    4. heat activated
60. What physical characteristic does a retinal scan biometric device measure?
    1. The amount of light reaching the retina
    2. The amount of light reflected by the retina
    3. The pattern of light receptors at the back of the eye
    4. **The pattern of blood vessels at the back of the eye**
61. Under what conditions would the use of a "Class C" hand-held fire extinguisher be preferable to the use of a "Class A" hand-held fire extinguisher?
    1. When the fire is in its incipient stage.
    2. **When the fire involves electrical equipment.**
    3. When the fire is located in an enclosed area.
    4. When the fire is caused by flammable products.
62. Which of the following questions is less likely to help in assessing physical and environmental protection?
    1. Are sensitive data files encrypted on all portable systems?
    2. Are deposits and withdrawals of tapes and other storage media from the library authorized and logged?
    3. Are computer monitors located to eliminate viewing by unauthorized persons?
    4. **Are procedures in place to determine compliance with password policies?**
63. Devices that supply power when the commercial utility power system fails are called which of the following?
    1. power conditioners
    2. **uninterruptible power supplies**
    3. power filters
    4. power dividers
64. Controls like guards and general steps to maintain building security, securing of server rooms or laptops, the protection of cables, and the backing up of files are some of the examples of:
    1. Administrative controls
    2. Logical controls
    3. Technical controls
    4. **Physical controls**
65. Which of the following is electromagnetic interference (EMI) that is noise from the radiation generated by the difference between the hot and ground wires?
    1. **common-mode noise**
    2. traverse-mode noise
    3. transversal-mode noise
    4. crossover-mode noise
66. Physical security is accomplished through proper facility construction, fire and water protection, anti-theft mechanisms, intrusion detection systems, and security procedures that are adhered to and enforced. Which of the following is not a component that achieves this type of security?
    1. Administrative control mechanisms
    2. **Integrity control mechanisms**
    3. Technical control mechanisms
    4. Physical control mechanisms
67. Which of the following is currently the most recommended water system for a computer room?
    1. **preaction**
    2. wet pipe
    3. dry pipe
    4. deluge
68. The Physical Security domain addresses three areas that can be utilized to physically protect an enterprise's resources and sensitive information. Which of the following is not one of these areas?
    1. Threats
    2. Countermeasures
    3. Vulnerabilities
    4. **Risks**
69. Which of the following is a class C fire?
    1. **electrical**
    2. liquid
    3. common combustibles
    4. soda acid
70. Which of the following is the most costly countermeasure to reducing physical security risks?
    1. procedural controls
    2. hardware devices
    3. electronic systems
    4. **personnel**
71. A prolonged power outage is a:
    1. brownout
    2. **blackout**
    3. surge
    4. fault
72. Which is the last line of defense in a physical security sense?
    1. **people**
    2. interior barriers
    3. exterior barriers
    4. perimeter barriers
73. The ideal operating humidity range is defined as 40 percent to 60 percent. Low humidity (less than 40 percent) can produce what type of problem on computer parts?
    1. **Static electricity**
    2. Electro-plating
    3. Energy-plating
    4. Element-plating
74. The "vulnerability of a facility" to damage or attack may be assessed by all of the following except:
    1. Inspection
    2. History of losses
    3. Security controls
    4. **security budget**