Chapter 14 Test

Name: _		Date:
Directions	s: Writ	e the correct letter on the blank before each question.
Objectiv Identify		alarm system components.
	1.	The fire alarm component that serves as the brain of an alarm system is called the: (608)
		A. initiating device.B. notification appliance.C. fire alarm control unit (FACU).D. secondary power supply (SPS).
	2.	Which component's power supply usually comes from the building's main power connection to the local utility provider? (609)
		A. Initiating deviceB. Extra alarm functionsC. Primary power supplyD. Secondary power supply
	3.	Which component can consist of batteries with chargers, engine- driven generators with a storage battery, or multiple engine-driven generators? (611)
		A. Initiating deviceB. Notification applianceC. Primary power supplyD. Secondary power supply
	4.	Which component sends a signal to the FACU using either hard-wire systems or a signal conveyed by radio wave over a special frequency? (610)
		A. Initiating deviceB. Notification applianceC. Primary power supplyD. Secondary power supply

5. The most common types of alarm-signaling systems used for signaling a fire alarm in a structure are: (610) A. tactile notification appliances. visual notification appliances. B. C. textual notification appliances. audible notification appliances. **Objective 2: Explain types of alarm-signaling systems.** Which type of fire detection and alarm system specialty signal 6. indicates an off-normal condition of the complete fire protection system? (613) A. Alert signal B. Alarm signal C. Trouble signal Supervisory signal D. A(An) is a warning of a fire emergency or dangerous condition 7. that demands immediate attention. (613) Α. alert signal B. alarm signal C. trouble signal supervisory signal 8. Which type of specialty signal indicates loss of primary power or failure or removal of an initiating device? (613) A. Alert signal B. Alarm signal C. Trouble signal Supervisory signal Which alarm system is designed to provide notification to building 9. occupants only on the immediate premises? (614) Protected premises (local) A.

В.

D.

Supervising station alarms

Public emergency alarm reporting

C. Emergency communications

 10.	The simplest type of protected premises alarm system is a(an): (615)
	A. addressable alarm system.B. supervising station system.C. conventional alarm system.D. zoned conventional alarm system.
 11.	Which of the following BEST describes a zoned conventional alarm system? (616)
	 A. Usually activated by manual means, such as a pull station B. They are only practical for small occupancies with a limited number of rooms C. This system is found in occupancies that use the alarm signals for other purposes D. An annunciator panel, FACU, or printout visibly indicates the location of an operating alarm-initiating device
 12.	Which supervising station is recognized as the most reliable? (618)
	A. LocalB. CentralC. RemoteD. Proprietary
 13.	Which supervising station is used to protect large commercial and industrial buildings, high-rise structures, and groups of commonlyowned facilities? (619)
	A. LocalB. CentralC. RemoteD. Proprietary
 14.	Which supervising station does not provide inspection, testing, or maintenance services? (619)
	A. Local B. Central C. Remote D. Proprietary

	15.	Which of the following statements about public emergency alarm reporting systems is MOST accurate? (621)
		A. These systems cannot be connected via telephone lines.B. Power interruption may result in the alarm only sounding
		locally. C. They are connected directly to the fire department via the Internet.
		D. Initiating devices cannot be activated when the power supply to the municipal system is interrupted.
	16.	Which type of emergency communications system is MOST helpful to fire suppression personnel operating in a building? (622)
		A. Cellular phone systemsB. Mass notification systemsC. Voice notification systemsD. Two-way communication systems
	17.	The type of emergency communications system used to provide emergency communication to a large number of people on a wide-scale basis is a: (622)
		A. cellular phone system.B. public address system.C. mass notification system.D. two-way communication system.
Objectiv Explain		of automatic alarm-initiating devices.
	18.	Automatic alarm-initiating devices are more commonly known as: (623)
		A. alarms.B. initiators.C. detectors.D. activators.
	19.	Which type of automatic initiating devices are relatively inexpensive and least prone to nuisance alarms? (624)
		 A. Heat detection devices B. Flame detection devices C. Smoke detection devices D. Combination detection devices

 20.	What do heat detectors require in order to be effective? (624)
	A. Proper placementB. Continuous testingC. 24-hour monitoringD. Professional installation
 21.	Which type of fixed-temperature heat detector uses two types of metal with different heat-expansion ratios? (625)
	A. BimetallicB. Fusible linkC. Frangible bulbD. Continuous-line
 22.	The one style of heat detection device that can be used to detect conditions over a wide area is a: (626)
	A. bimetallic detector.B. fusible link detector.C. frangible bulb detector.D. continuous-line detector.
 23.	On which principle of physics does a rate-of-rise heat detector operate? (627)
	 A. Heat causes melting of certain materials B. Heat causes the expansion of various materials C. Heated materials have thermoelectric properties D. Fires rapidly increase the temperature of a given area
 24.	Which type of rate-of-rise heat detector can monitor large areas of a building? (627)
	 A. Rate-compensation heat detector B. Electronic spot-type heat detector C. Pneumatic rate-of-rise line heat detector D. Pneumatic rate-of-rise spot heat detector
 _ 25.	Which rate-of-rise heat detector is designed for use in areas subject to regular, but slow, temperature changes? (628)
	 A. Rate-compensation heat detector B. Electronic spot-type heat detector C. Pneumatic rate-of-rise line heat detector D. Pneumatic rate-of-rise spot heat detector

	26.	The preferred type of automatic alarm device in residences and health and institutional care facilities is a: (630)
		 A. smoke detector. B. rate-compensation heat detector. C. pneumatic rate-of-rise line heat detector D. pneumatic rate-of-rise spot heat detector
	27.	Which type of smoke detector works on all types of fires and usually responds more quickly to smoldering fires than ionization smoke detection? (630)
		 A. Duct smoke detectors B. Video-based detectors C. Photoelectric smoke detectors D. Pneumatic rate-of-rise spot heat detectors
	28.	Which type of smoke detector contains a sensing chamber consisting of two electrically charged plates and a radioactive source? (631)
		 A. Duct smoke detectors B. Ionization smoke detectors C. Photoelectric smoke detectors D. Pneumatic rate-of-rise spot heat detectors
	29.	Which type of flame detector is effective in monitoring large areas such as aircraft hangars and computer rooms? (633)
		A. Infrared detectorsB. Ultraviolet detectorsC. Combination detectorsD. Photoelectric detectors
Objectiv Describ		nual alarm-initiating devices.
	30.	Which type of manual pull station may be confusing to certain occupant/operators? (636)
		A. Single-actionB. Double-actionC. Those with protective coversD. Those with glass windows and mallets

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	31.	Multistory facilities should have at least pull station(s) on each floor. (636)
		A. 1
		B. 2
		C. 3 D. 4
		Д. т
Objectiv		
		vice testing and inspection methods for fire detection
and ala	rm sy	stems.
	32.	What is the periodic testing of fire detection and alarm signaling systems called? (637)
		A. Signal testing
		B. A service testC. Readiness testing
		D. An acceptance test
	33.	What should an inspector do when conditions that may trigger an
	33.	unwanted alarm or environmental conditions that may negatively affect a system are recognized? (637)
		A. Collect fines
		B. Issue citations C. Contact law enforcement
		D. Recommend corrective action
	34.	What should an inspector look for when inspecting manual pull
	311	stations and audible or visual warning devices? (637)
		A. Component age
		B. Changes in occupancy
		C. Devices are free of dust, dirt, and paintD. Components are not blocked or obstructed in any way
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	35.	Inspectors should check the FACU to verify: (638)
		A. component age.B. changes in occupancy.
		C. all parts are operating properly.
		D. components are not blocked or obstructed in any way.

 36.	What can be used to test restorable heat detectors during a test? (639)
	A. MatchesB. Setting a test fireC. Hair dryers and electric heat gunsD. Restorable heat detectors cannot be tested
37.	A permanent record of all detector tests must be maintained for at least: (640)
	A. 3 yearsB. 5 yearsC. 10 yearsD. 25 years
38.	During a monthly test for alarm signaling systems using backup electrical generators, how long should a generator run under load? (641)
	A. 15 minutesB. 20 minutesC. 30 minutesD. 60 minutes
39.	Remote station and proprietary systems should be tested according to requirements established by: (641)
	A. fire codes.B. industry standards.C. manufacturer instructions.D. agency having jurisdiction (AHJ).
40.	All components of emergency voice/alarm systems should be tested at least: (642)
	A. weekly.B. monthly.C. semiannually.D. annually.