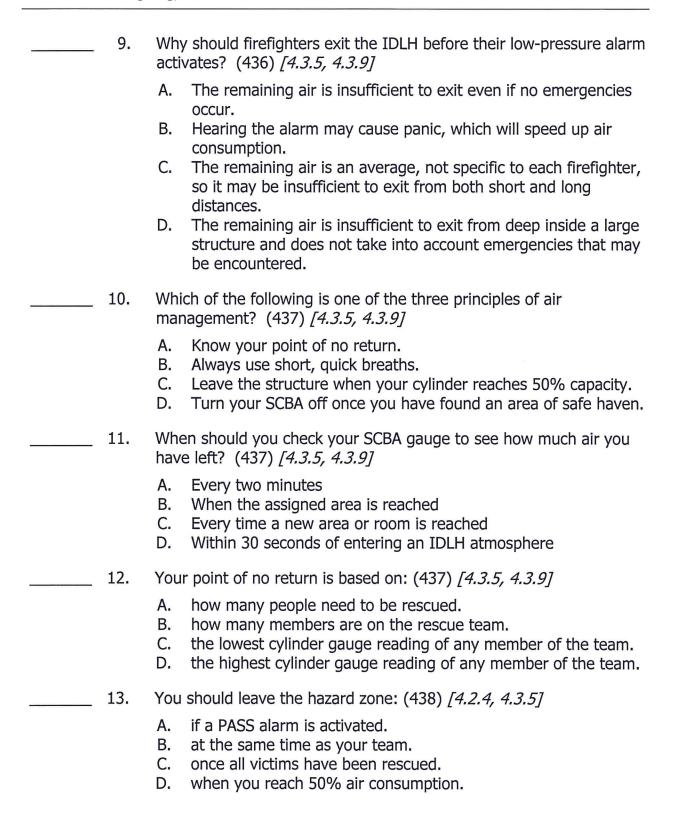
## **Chapter 10 Test**

name: _			Date:
Directions	s: Writ	e the	correct letter on the blank before each question.
	1.	con	ich condition specific to search and rescue operations should be municated to crew members and/or your supervisor? (433)
		A. B. C. D.	Wind direction and speed Names of victims or occupants Building's construction classification Known locations of victims or occupants
	2.		ich basic firefighting skill serves as an essential survival skill ing search and rescue operations? (434) [4.3.5, 4.3.9]
		A. B. C. D.	Forcing a window or cutting through debris Using air monitoring devices to sample the atmosphere Using a hoseline to perform hydraulic ventilation Operating a portable fire extinguisher to put out an incipient fire
	3.		der normal conditions, air management increases your work time, if you are lost or trapped, it: (434) [4.3.5, 4.3.9]
		A.	decreases the amount of time you can survive before escaping or being rescued.
		В.	increases the amount of time you can survive before escaping or being rescued.
		C.	will decrease your survivable time before rescue and increase your energy output.
		D.	will not be effective, because adrenaline and stress will drastically increase your consumption rate

 4.	To be physically and mentally prepared for survival during search and rescue operations, you should: (434) [4.3.5, 4.3.9]
	<ul> <li>A. push yourself past your limits.</li> <li>B. follow orders without question.</li> <li>C. practice emergency exit techniques.</li> <li>D. allow the IC to look out for your crew members' safety.</li> </ul>
 5.	Panic, claustrophobia, and disorientation are effects of: (434-435) [4.3.5, 4.3.9]
	<ul><li>A. pulmonary edema.</li><li>B. obscured vision conditions.</li><li>C. long-term exposure to radiation.</li><li>D. chronic exposure to products of combustion.</li></ul>
 6.	Which situation would require a firefighter to call a MAYDAY? (435) [4.2.4, 4.3.5, 4.3.9]
	<ul> <li>A. SCBA malfunction</li> <li>B. Portable radio malfunction</li> <li>C. Encountering a hazardous materials spill</li> <li>D. Finding unidentified victims or occupants</li> </ul>
 7.	For firefighters, the environment may remain tenable as long as: (436) [4.3.5, 4.3.9]
	<ul> <li>A. they are wearing PPE and SCBA.</li> <li>B. the IC determines it is safe to remain inside.</li> <li>C. they are wearing the highest levels of PPE and SCBA designated for rescue operations.</li> <li>D. heat levels and duration of the interior operations stay within</li> </ul>
	acceptable limits for the PPE and SCBA provided.
 8.	Rooms or closet areas where the door can be closed to prevent the spread of heat, smoke, and toxic gases into that space are called: (436) [4.3.5, 4.3.9]
	<ul><li>A. safe havens.</li><li>B. escape rooms.</li><li>C. protective units.</li><li>D. fireproof assemblies.</li></ul>

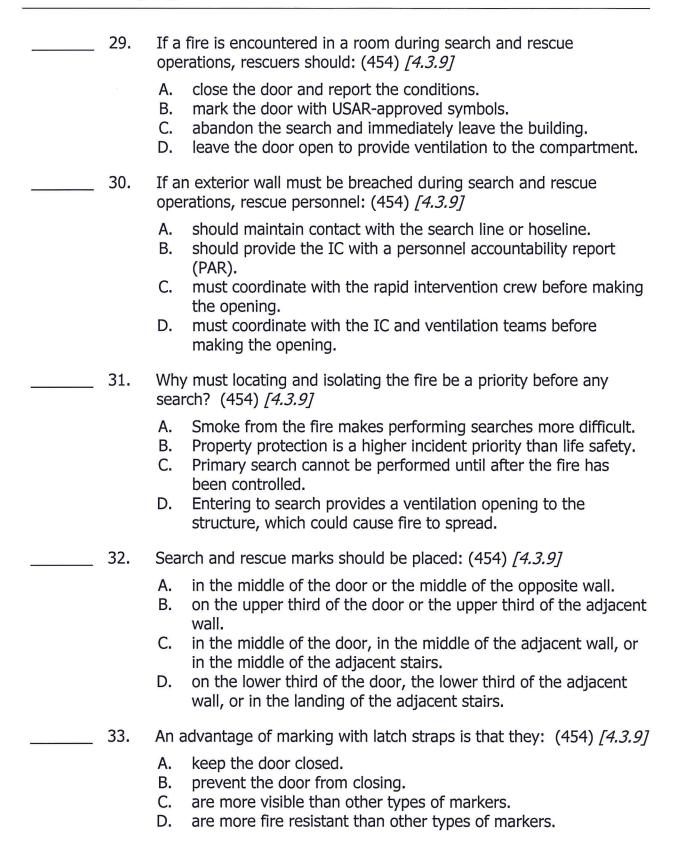


 14.	Actions such as opening a bypass valve on a cylinder, sharing air, and breathing directly from the cylinder are: (438) [4.3.5, 4.3.9]
	<ul> <li>A. never allowed according to SOPs.</li> <li>B. possible solutions to air emergencies.</li> <li>C. suggested responses to structural collapse.</li> <li>D. unlikely to occur at a search and rescue operation.</li> </ul>
 15.	How can you help rescuers find you if you are forced to shelter in blace? (439) [4.3.9]
	<ul> <li>A. Remain in the fire compartment</li> <li>B. Do not go far from your assigned area</li> <li>C. Leave all doors open and marked to indicate your location</li> <li>D. Shine a light through available windows to draw attention to your location</li> </ul>
 16.	n which situation would firefighters likely use an air monitoring device? (440) [4.3.21]
	<ul> <li>A. Fire in a trash container</li> <li>B. A car accident requiring victim extrication</li> <li>C. When assisting a high-angle rescue team</li> <li>D. A medical call where multiple victims have collapsed for an unknown reason</li> </ul>
 17.	Firefighters use air-monitoring devices to: (440) [4.3.21]
	A. measure ambient air temperatures. B. inspect the air inside apparatus tires. C. test the air quality in an SCBA cylinder. D. detect oxygen levels and hazardous substances.
 18.	Which is an accurate statement about using an air-monitoring device? (441) [4.3.21]
	A. Only one type of air-monitoring device should be used at an incident.
	3. Air-monitoring devices must be used under the supervision of a company officer.
	C. If devices are used incorrectly, the safety of everyone around can be in jeopardy.
	<ol> <li>Air-monitoring devices can only measure one type of gas, so multiple varieties are needed at each incident.</li> </ol>

	19.		r monitoring indicates that the oxygen level in the atmosphere is w 19.5 percent,: (443) [4.3.21]
		A. B. C. D.	the IC or Incident Safety Officer should be notified. SCBA is no longer necessary for rescuers in the area. the area is said to be an oxygen-enriched environment. respiratory protection other than SCBA must be used.
	20.	gas	atmosphere is considered hazardous if it contains a hazardous in excess of 10 percent of the hazardous material's: (443)
		A. B. C. D.	ignition range. flammability threshold. lower explosive limit (LEL). upper combustible limit (UCL).
	21.	A bu	ump test is performed to: (446) [4.3.21]
		A. B. C. D.	reset a gas detector to factor default settings. test the amount of oxygen in the atmosphere. verify that a gas detector is functioning properly. test the amount of carbon dioxide in the atmosphere.
·	22.	shou	AHJ should establish action levels that describe how firefighters ald respond to high- or low-level alarms while performing: (448)
		A. B. C. D.	ventilation. forcible entry. air monitoring. MAYDAY training.
	23.	Befo	ore entering an IDLH environment, you must: (450) [4.3.9]
		A. B.	don the highest level of PPE available to you. document the exact tools and equipment you are taking into the structure.
		C.	ensure that your SCBA is turned on, working properly, and
		D.	contains a full cylinder of air. estimate the total time to be spent in the structure based on

your team's average air consumption rate.

 24.	In order to conduct an effective search operation, firefighters must know the: (450) [4.3.9]
	<ul> <li>A. age of the building.</li> <li>B. layout or floor plan of the building.</li> <li>C. location of the nearest water supply.</li> <li>D. time the next apparatus will respond.</li> </ul>
 25.	What types of tools and equipment do search and rescue personnel carry? (452) [4.3.9]
	<ul> <li>A. Hydraulic rescue equipment</li> <li>B. Power saws and hydraulic tools</li> <li>C. pH meters and fluoride test paper</li> <li>D. Thermal imagers and forcible entry tools</li> </ul>
 26.	An advantage of using thermal imagers during search and rescue operations is: (452) [4.3.9]
	<ul> <li>A. improved visibility in an obscured environment.</li> <li>B. the ability to detect fires through carpeted floors.</li> <li>C. the ability to see through water, glass, and other reflective surfaces.</li> <li>D. detection of people under or behind furniture and on the opposite side of walls.</li> </ul>
27.	
27.	<ul> <li>One limitation of thermal imagers is that: (453) [4.3.9]</li> <li>A. they have a fairly long instrument response time.</li> <li>B. there are no fixed standards for interpretation of data.</li> <li>C. they may not be able to help improve visibility in an obscured environment.</li> <li>D. if a structure is carpeted, they may not be able to detect fire on the floors below.</li> </ul>
 28.	During search and rescue operations, rescuers should NOT: (453) [4.3.9]
	<ul> <li>A. close doors during the search.</li> <li>B. enter a structure where survivors are not likely to be found.</li> <li>C. exit the building by turning in the opposite direction that was turned to enter.</li> <li>D. move quickly and stay close to the wall of a hallway or room</li> </ul>
	when it is filled with smoke



	34.	<ul> <li>A primary search is: (456) [4.3.9]</li> <li>A. performed by one person.</li> <li>B. not the time to rescue victims.</li> <li>C. a slow, thorough search conducted after the fire is under control.</li> <li>D. a fast, thorough search performed either before or during fire suppression operations.</li> </ul>
	35.	In order to safely conduct a primary search, rescuers should: (456) [4.3.9]
		<ul> <li>A. work in teams of two or more.</li> <li>B. split up to cover a larger area.</li> <li>C. wait to search until the fire has been extinguished.</li> <li>D. move slowly and check in with the IC after searching each room.</li> </ul>
	36.	When does the secondary search take place? (456) [4.3.9]
		<ul> <li>A. After the fire is under control</li> <li>B. As soon as resources are available</li> <li>C. During fire suppression operations</li> <li>D. Before fire suppression operations</li> </ul>
	37.	Secondary searches: (456) [4.3.9]
		<ul> <li>A. do not require SCBA.</li> <li>B. use the same steps as primary searches.</li> <li>C. and primary searches are conducted by the same personnel.</li> <li>D. use different steps than the primary searches, but are just as organized.</li> </ul>
-	38.	During a secondary search, rescuers should not remove SCBA until: (456) [4.3.9]
		<ul> <li>A. the room is clear of smoke.</li> <li>B. there are no visible flames.</li> <li>C. it is determined that there are no remaining victims.</li> <li>D. the supervisor or safety officer determines that the atmosphere</li> </ul>

is safe.

 39.	Whe	re should you start the search on the fire floor? (457) [4.3.9]
	A. B. C. D.	At the entrance As close to the fire as possible Where victims are most likely to be Where victims will be easiest to rescue
 40.	that	ch action can protect the egress pathways during a search so the search team can escape if conditions change rapidly? (458) 1.5, 4.3.9]
	A. B. C. D.	Only allow one search team in an area at a time Close doors along the egress path after rooms are searched Open all doors in the path to make more exit points available Use an air monitoring device to check for dangerous gas levels in the compartment
41.		ere is heavy smoke or extreme heat in a compartment that is g searched, rescuers should: (458) [4.3.9]
	A. B. C. D.	stand to get a better view. move below the smoke level. attempt to extinguish the fire. check the heat signature with a thermal imager.
 42.	-	should personnel search behind doors and on the floor below ows? (460) [4.3.9]
	B. C.	Visibility and air quality are best in these places. These places must be marked in the primary search. Occupants are most likely to find shelter in these places. Smoke may overcome occupants while they are trying to escape.
 43.	searc	hich search method does the leader remain at a fixed point while ching team members spread out through a room to complete a ch? (461) [4.3.9]
	0.00	VEIS method Shelter-in-place method Oriented-search method Wide-area search method

44.	Which search method employs the use of markers such as knots at regular intervals along the search line to indicate distance from the beginning of the search line? (461) [4.3.9]
	<ul><li>A. VEIS method</li><li>B. Self-evacuation method</li><li>C. Oriented-search method</li><li>D. Wide-area search method</li></ul>
 45.	During a wide-area search, every team member is equipped with a: (463) [4.3.9]
	<ul><li>A. tether line.</li><li>B. thermal imager.</li><li>C. backup SCBA cylinder.</li><li>D. high-capacity SCBA cylinder.</li></ul>
 46.	A minimum of firefighters are needed to perform VEIS if using a ladder. (464) [4.3.9]
	A. one B. two C. three D. four
 47.	The four steps involved in VEIS are: (465) [4.3.9]
	<ul> <li>A. vent, exit, isolate, save.</li> <li>B. vent, enter, isolate, search.</li> <li>C. vent, enter, isolate, substitute.</li> <li>D. victim location, evacuation, isolate, search.</li> </ul>
 48.	VEIS is only intended for: (465) [4.3.9]
	<ul> <li>A. larger structural searches.</li> <li>B. rooms in the interior of the structure.</li> <li>C. rapid rescue of victims and the isolation of individual rooms.</li> <li>D. rooms that are involved with the fire or show conditions of flashover.</li> </ul>

 49.	What	t is a rescuer's role in occupant self-evacuation? (465) [4.3.9]
	B. C.	Treating injured victims Keeping bystanders out of the safe haven area Establishing a safe haven away from the structure Moving victims to a protected location inside the structure
 50.	A. B. C.	hich location would sheltering-in-place likely be used instead of uation? (466) [4.3.9]  Hospital  Daycare center  Open-air market  Low-rise apartment building
 51.		th type of carry or drag is commonly used for children, but is not cical for unconscious adults? (466) [4.3.9]
	B. C.	Incline drag Webbing drag Extremities lift/carry Cradle-in-arms lift/carry
 52.	A "M	AYDAY" is called when: (467) [4.2.4, 4.3.5]
	B. C.	there is a partial roof collapse. unconscious victims are located. a firefighter is in immediate danger. hazardous materials are found in a structure.
 53.		u think your life is in immediate danger, transmit the MAYDAY al and then: (468) [4.2.4, 4.3.5]
	В. С.	call the rapid intervention crew. provide personnel accountability report. activate your PASS device before communicating your situation to the IC.
	D.	communicate your situation to the IC before activating your PASS device.

54. Which of the following actions should be taken immediately when MAYDAY is broadcast? (469) [4.2.4, 4.3.5] The MAYDAY crew is dispatched to locate the downed firefighter. All radio traffic ceases and only traffic relating to the MAYDAY is В. allowed. C. Personnel near the downed firefighter should proceed to assist with rescue. All assigned units are directed to assist with searching for the firefighter who has broadcast the MAYDAY. If you are near the downed firefighter when a MAYDAY transmission 55. is made: (469) [4.2.4, 4.3.5] exit the area immediately. immediately ventilate the area. В. immediately rush to assist with the rescue. listen closely for your orders after the transmission and do not D. freelance. 56. When any evacuation signal is given, all exiting crews must: (469) [4.2.4, 4.3.5] activate their personal alert safety system (PASS) devices. Α. proceed to a designated safe area outside the collapse zone. confirm the evacuation order with the IC before exiting the C. structure. D. ensure that all victims have been evacuated before leaving the structure. How does staying low to the floor improve survivability? (470) 57. [4.2.4, 4.3.5] It allows you to exit a structure more quickly В. It removes toxins such as carbon monoxide (CO) C. Temperatures are cooler and air may be less contaminated This places a barrier between you and the fire, allowing you D. more time to find an egress point

	58.	Escaping to a safe haven is the best option when: (470) [4.2.4, 4.3.5]
		<ul><li>A. your low-pressure alarm sounds.</li><li>B. the primary search has been completed.</li><li>C. the rest of your team is in the hazard zone.</li><li>D. there is imminent threat of structural collapse.</li></ul>
	59.	What is the best option when rapid fire development is about to occur? (470) [4.2.4, 4.3.5]
		<ul> <li>A. Shelter in place</li> <li>B. Escape to a safe haven</li> <li>C. Remain in place and use the hoseline for protection</li> <li>D. Advance to the seat of the fire to extinguish it before it grows</li> </ul>
<u> </u>	60.	Which coupling on a hoseline will indicate you are headed toward an egress point? (471) [4.2.4, 4.3.5]
		A. Male B. Joint C. Bypass D. Female
	61.	When you are seeking to escape and you locate a window, you should: (472) [4.2.4, 4.3.5]
		<ul> <li>A. use an escape rope to descend from the window.</li> <li>B. break the window glass using heavy furniture in the room.</li> <li>C. break the glass and lower yourself to the ground head first.</li> <li>D. ask Command if opening the window will make interior conditions worse.</li> </ul>
	62.	Why is breaching interior walls not a preferred method of escape? (472) [4.2.4, 4.3.5, 4.3.9]
		<ul><li>A. It inflicts too much damage on the structure.</li><li>B. It could cause possible harm to victims sheltering in the next room.</li></ul>
		C. It requires specialized tools and requires responders to remove SCBA.
		D. It requires strength, depletes air supply, and creates an additional flow path.

 63.		at should you do if you become entangled while trying to cuate a building? (473) [4.2.4, 4.3.5]
	A. B. C. D.	Remove your SCBA and cut the wires Contact the rapid intervention crew by radio Wait calmly for another firefighter to find you Broadcast a MAYDAY, then attempt to free yourself
 64.		at is the purpose of a rapid intervention crew (RIC)? (473) 8.9, 4.3.10]
	A. B. C. D.	Perform a primary search Perform a secondary search Rescue injured or trapped victims Rescue injured or trapped firefighters
 65.		ch acronym describes the mandatory tools carried by a rapid rvention crew? (473) [4.3.9]
	A. B. C. D.	AWARE – Air, Water, A Radio, Extrication AWAKE – Air, Water, Axe, K-tool, Extrication PATH – PPE, Axe, Thermal imager, Flashlight PART– PPE, Air monitoring equipment, Radio, Thermal imager
 66.		le in a structure searching for a downed firefighter, the RIC uld: (474) [4.3.9]
	A. B. C. D.	start the search closest to the fire. stop frequently and briefly remain silent. open closed doors in order to prevent backdraft. radio to Command as they head from one room to another.
 67.	A tra	acking device set to search mode: (474) [4.3.9]
	A. B. C.	is only activated when a PASS device fails. displays the distance and direction toward another receiver. will not transmit a signal through walls, floors, or other solid objects.
	D.	makes noise to alert rescuers to the downed firefighter's location.

68.	After locating a downed firefighter in an IDLH atmosphere, what is the RIC's priority? (474) [4.3.9]		
	A. B. C. D.	Extinguishing the fire Rescuing other victims Exiting the IDLH atmosphere Stabilizing the firefighter's injuries	

- 69. When removing a firefighter with functioning SCBA from a hazardous location: (475) [4.3.9]
  - A. connect the firefighter's facepiece to another SCBA.
  - B. reconnect the firefighter's facepiece to the SCBA tank.
  - C. move the firefighter carefully so as not to dislodge the mask.
  - D. remove the firefighter's facepiece and inspect it before continuing.