1.	In the fire service, division of labor is necessary to:						
В. С.	assign responsibility. prevent duplication of effort. make specific assignments. All of the above.						
	Answer: D 2. Policies are examples of standing plans designed to provide:						
A. C.	staffing requirement guidelines. 5. problem-solving.		B. guidance for decision making.D. communications.				
	swer: B A procedure is a(ı	n):					
	a. guide to thinking. C. guide to decision making.			B. detailed guide to action.D. interpretation.			
	Answer: B 4. Building codes are intended for the life safety of:						
A.	designers.	B. occupants.	C.	neighbors.	D. firefighters.		
5.		loss statistics show tha			most fire damage, and		
A.	commercial	B. industrial	C.	institutional	D. residential		
6. pro	Answer: D 6. NFPA is the standard that contains minimum requirements and procedures for a safety and health program.						
A.	1901	B. 1932	C.	1001	D. 1500		
Answer: D 7. The tracking of personnel working at an incident requires a system that is standardized for every incident to establish:							
	A. accountability. B. chain of command. C. unity of command. D. span of control.						
	Answer: A 8. At a <u>minimum</u> , firefighters must work in teams of when entering an						

involved structure?						
A. two	B. three	C. seven	D. five			
Answer: A 9. When lifting rescued persons or heavy objects firefighters should:						
		B. use their legs to I D. squat and lift with				
	oment used during the de all of the following o	maintenance of equipmexcept:	nent such as saws			
A. gloves.C. eye protection.		B. hearing protection.D. Nomex hood.				
Answer: D 11. A component of NIMS that should be used on every incident which is either written or unwritten is:						
A. the use of an IC. C. an IAP.		B. the PIO. D. a safety officer.				
		r of injuries or fatalities, and a(n) Rep				
A. United States Fire AdministrationB. Incident Management SystemC. Advanced Cardiac Life SupportD. National Fire Incident Reporting System						
Answer: D 13. A uniform data collection system used by most departments to track incident information is known as the:						
A. National Fire Incident Reporting System. B. National Fire Incident Recording System. C. First National Incident Reporting System. D. First National Incident Response System.						
Δ Δ	A					

Answer: A

14. Which of the following statements regarding fire reports is **incorrect**?

- A. Information found in fire reports can be used by insurance companies.
- B. Information reported on fire reports is used by private manufacturing companies.
- C. Fire reports are public records.
- D. National Fire Incident Reporting System Reports do <u>not</u> need to be completed for Emergency Medical Services runs.

Answer: D

- 15. Which of the following statements regarding fire incident reports is **incorrect**?
- A. Reports are used only for statistical information.
- B. They are legal documents even if they are not signed.
- C. The address location must include both owner and occupant.
- D. Local fire information becomes part of the national database.

Answer: A

- 16. National Fire Incident Reporting System information is transmitted to the:
- A. U. S. Fire Administration.
- B. State Fire Marshal's office.
- C. insurance companies, if requested.
- D. All of the above.

Answer: D

- 17. <u>Directions</u>: Read the following statements regarding how to obtain necessary information for reports and select your answer from choices A through D.
 - <u>Statement 1</u>: The property owner and/or occupant is the primary

source of information.

- Statement 2: Bystanders or eyewitnesses should be guestioned.
- <u>Statement 3</u>: The model number and serial number of any equipment

involved in the fire should be recorded.

- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statement 1 is false; statements 2 and 3 are true.
- D. All the statements are true.

Answer: D

- 18. **<u>Directions</u>**: Read the following statements regarding reports and select your answer from choices A through D.
 - Statement 1: Information in reports must be complete, clear and concise.
 - Statement 2: Improper or inadequate documentation can have long term negative

consequences for the fire department.

<u>Statement 3</u>: Fire reports are considered public records under the Freedom of Information Act.

- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statement 1 is false; statements 2 and 3 are true.
- D. All three statements are true.

Answer: D

- 19. The two **most common** ways the incident commander orders firefighters to evacuate a structure are to broadcast a radio message and:
- A. page all firefighters to respond.
- B. implement an accountability system.
- C. contact dispatch to activate PASS device.
- D. sound an audible warning.

Answer: D

- 20. Audible warning devices for emergency evacuation should be:
- A. broadcast several times.
- B. heard for at least 500 feet.
- C. used to announce the need for multiple alarms.
- D. used to give an "all clear" on scene.

Answer: A

- 21. It is important that the communication center be kept advised of the actions taken at emergency scenes. Situation status/progress reports should include all of the following **except**:
- A. change in command location.

 B. exposures present.
- C. direction of fire spread. D. number of units in staging.

Answer: D

- 22. Fire departments that operate radio equipment must hold radio licenses from the:
- A. Federal Central Communications.

 B. National Emergency Broadcasting.
- C. Federal Communications Commission. D. National Radio Communications.

Answer: C

- 23. The _____ System can significantly shorten response time or enable a dispatcher to handle a greater volume of calls.
- A. Voice Recording B. Radio Logging

C. Wireless Fax	D. Computer-Aided Dispatch
Answer: D 24. In fire departments that I operations should be:	nave access to multiple radio channels, emergency
A. on multichannels also.B. run by cell phone so the raccondition.C. assigned a separate change.D. Both A and C are correct.	adio is not tied up. nel dedicated for use on that scene only.
•	ns device which allows the hearing or speech impaired to sknown as a system.
A. commercial phoneC. direct line	B. TDD/TTY text phoneD. wireless
Answer: B 26. The important difference	between Basic 911 and Enhanced 911 is that:
and address. B. enhanced systems are use C. basic systems are more re	
Answer: A 27. Computer-aided dispatc	n is:
dispatch information and r. B. an organized collection of C. typically used by operation	similar facts. Is chief officers in the fire service. Vice primarily used by volunteer department personnel to
	em that <u>does</u> <u>not</u> have access to the Public Switch Network points, is a system.
A. commercial phoneC. direct line	B. TDD/TTY text phoneD. routine line

Answer: C

29. You are the acting officer in charge of a ladder company, working at a structure fire. You receive a radio message, "Command to Ladder 1. We need you to ventilate the roof, directly over the fire area." Which of the following describes the most correct way to respond?					
A. Transmit immediately because time is of the essence. B. Verify the instruction received by restating the information during your response. C. Use a 10-code to keep the message short and not waste important air time. D. Use a moderate rate of speaking to allow for easy understanding by the I.C.					
Answer: B 30. Situation status/progress reports should be made ten minutes into the incident and at minute intervals thereafter until the incident is under control.					
A. 5 - 10	B. 25 - 30	C. 10 - 20	D. exactly 30		
Answer: C 31. When a compan	y officer arrives first on	a fire scene, the offic	er is in command until:		
A. the fire is declaredB. a chief officer arrivC. the chief of the deD. arrival of the senion	res and may choose to partment arrives.	assume command.			
	comes frustrated becau bosses. This situation				
A. chain of command C. span of control.	I.	B. division of labor. D. unity of command	d.		
Answer: D 33. Which of the following is one of the major staff functions/components of the Incident Management System?					
A. PIO	B. Planning	C. Liaison	D. Safety Officer		
Answer: B 34. Which of the following <u>is</u> <u>not</u> one of the characteristics of an Incident Management System?					
A. Common terminoleC. Modular organizat	0.	B. Unity of comman D. Prefire plans	d		
Answer: D 35. Which of the following <u>is</u> <u>not</u> a major functional component of the Incident					

Management System	?			
A. Groups	B. Planning	C.	Logistics	D. Operations
	nditions, only a(n) or large-scale incidents		may order mu	ltiple alarms or
A. logistics officerC. safety operations of	officer		planning officer incident commande	er
Answer: D 37. As it relates to the	e Incident Managemer	nt S	ystem, a division ref	ers to:
A. firefighters assignedB. a part of a strike teC. a geographic locateD. a supporting brand	eam.	-		
Answer: C 38. Which of the follo	owing <u>is</u> <u>not</u> a characte	erist	ic of the Incident Ma	anagement System?
A. Integrated communic. Modular organizati			Predesignated faci Independent action	
Answer: D 39. The Incident Mai	nagement System shou	uld:		
C. provide procedures	ed for all situations. first fire unit on the sce s that perfectly fit all de for mutual aid assistar	par	tments.	
	anagement System, the			nority over the
A. Incident Command C. Operations Officer			Logistics Officer Staging Officer	
Answer: A 41. In the Incident M perform a specific task	anagement System, _ k such as ventilation or	res	are function cue.	al crews assigned to
A. divisions	B. groups	C.	single resources	D. branches

Answer: B 42. Within the Incident Management Syster Information are:	n, the positions of Safety, Liaison, and			
A. divisions.C. functional areas.	B. groups.D. command staff positions.			
Answer: D 43. The Incident Management System is <u>be</u>	est defined as:			
 a. the overall plan developed and used to control an incident. b. an organized, systematic method for the command, control, and management of an emergency incident. c. the ability to start small and expand if an incident becomes more complex. d. one designated leader or officer to command an incident. 				
Answer: B 44. What is the optimal number of individua an emergency incident?	als that one person should be supervising at			
A. Up to two B. Eight to ten	C. Three to seven D. Eight or more			
Answer: C 45. In order for the Incident Management S of the following components except :	ystem to function properly, it must contain al			
A. common terminology.C. all personnel from a single agency.	B. integrated communications.D. consolidated incident action plans.			
Answer: C 46. Under the Incident Management Syster determining the strategic goals for control of				
A. Incident Commander C. Planning Officer	B. Operations OfficerD. Administration Officer			
Answer: A 47. Under the Incident Management Syster implementing the tactical assignments to me				
A. Incident Commander C. Planning Chief	B. Operations ChiefD. Safety Officer			
Answer: B 48. Under the Incident Management Syster providing factual and accurate information to				

A. Safety B. Liaison C. Staffing D. Public Information

Answer: D

<u>Directions</u>: Match the characteristics of IMS in Column A with its description

in Column B.

Column A Column B

49. Modular organization

- 50. Span of control
- 51. Unified command
- 52. Unity of command
- A. Each person has only one direct supervisor
- B. Used when multiple agencies or multiple jurisdictions have responsibility for control of an incident
- C. The ability to start small and expand if an incident becomes more complex
- D. Organizes an incident by breaking down the overall strategy into smaller tasks
- E. The number of subordinates who report to one supervisor at any level within the organization

Answer: C,E,B,A

53. <u>Directions</u>: Read the following statements regarding the Incident Management System (IMS) select your answer from choices A through D.

Statement 1: The IMS assumes that the first arriving unit at an incident

assumes command.

Statement 2: The individual who is in charge of the first arriving unit is the

incident commander.

Statement 3: If a chief officer arrives after command has been established,

he may assume command.

A. Statement 1 is true; statements 2 and 3 are false.

- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statements 1 and 2 are false; statement 3 is true.
- D. All three statements are true.

Answer: D

54. A situation status progress report is provided upon:

A. termination of the incident. B. arrival.

C. transfer of command. D. setup of the staging area.

Answer: C

<u>Directions</u>: Match the Incident Management System term in Column A with its description in Column B.

Column A Column B

55. Branch

56. Division

57. Group

58. Crew

- A. Responsible for operations within an assigned geographical area
- B. Work on the same task or objective
- Maintains span of control over subordinate organization units
- D. One of a set number of resources of the same type and kind
- E. Works an assigned task, but without apparatus

Answer: C,A,B,E

59. Transfer of command is **best** accomplished:

A. by radio. B. face to face.

C. by cell phone. D. early on in the incident.

Answer: B

60. <u>Directions</u>: Read the following statements regarding transfer of command and select your answer from choices A through D.

Statement 1: The first arriving fire department member must be prepared

to transfer command to the next arriving individual with a

higher authority.

Statement 2: Transfer of command must include a situation status

progress report.

Statement 3: Command can only be transferred to someone who is on scene.

- A. Statement 1 is true, statements 2 and 3 are false.
- B. Statements 1 and 2 are true, statement 3 is false.
- C. Statements 1 and 2 are false, statement 3 is true.
- D. All three statements are true.

Answer: D

- 61. When a higher ranking officer arrives on the scene, is that higher ranking officer obligated to assume command from an existing Incident Commander who is of lower rank?
- A. Yes, this must always take place.
- B. No, this is expressly forbidden; lower ranking officers are to be left in position.
- C. Yes, in Class II or III hazardous materials situations; not otherwise.
- D. Some departments require this, while others leave it to the higher ranking officer's discretion.

Answer: D

- 62. For what types and sizes of incident is the Incident Management System (IMS) designed?
- A. Multi-agency only, medium or large size
- B. Multi-agency only, any size
- C. Single agency only, large size
- D. All types and sizes

Answer: D

- 63. In the Incident Management System structure, who is the one person ultimately responsible for managing an incident?
- A. A Chief OfficerB. The Planning ChiefC. The Incident CommanderD. The Operations Chief

Answer: C

- 64. The command post should be located:
- A. on the front corner of the building.

 B. in a nearby, protected location.
- C. at the forward observation limit.

 D. behind the structure.

Answer: B

- 65. Who is the Incident Commander's point of contact for representatives from outside agencies?
- A. The Planning Director B. The Communications Center
- C. The Liaison Officer D. The Staging Chief

A. Director	B. Chief	C. Manager	D. Officer
	ent Management Syste e directly related to con	-	ole for the managem
A. Logistics	B. Operations	C. Tactics	D. Planning
Answer: B 68. Which Incide fueled and provid for fire fighters?	ent Management Syste ing food	m section is responsib	ole for keeping vehic
A. Logistics	B. Liaison	C. Operations	D. Safety
of an incident? A. Legal	ent Management Syste	B. Finance/Admir	
C. Operations		D. Safety	
Answer: B	I sually refers to compa		on the same task o
objective, although	in not necessarily in the		
_	B. Group	C. Regiment	D. Project Tear
objective, although A. Task Answer: B 71. What Incide	•	n term can refer to cor	npanies or crews tha
objective, although A. Task Answer: B 71. What Incide	B. Group nt Management System	n term can refer to cor	npanies or crews tha
objective, although A. Task Answer: B 71. What Incide have been assign A. Division Answer: A	B. Group nt Management System ned on the basis of either	n term can refer to con er geography or functi C. Recon	npanies or crews that on?

A. rotundas. B. exposures. C. sectors. D. stages.

Answer: B

74. What would be the incident command designation for the 7th floor on a high-rise?

A. Sector 7 B. Sixth floor C. Division 7 D. Level 6

Answer: C

75. When is the first-arriving company officer allowed to pass command?

- A. Only when they feel intimidated by the situation facing them
- B. Any time they feel that one of the other officers known to be responding is equally or better qualified
- C. Only when their direct involvement in operations will have a significant impact on the outcome of the incident
- D. Never

Answer: C

76. If an Incident Commander requested three emergency medical services (EMS) strike teams, what would be dispatched?

A. Three EMS supervisors

qq Three first alarm assignments accompanied by EMS

B.

- C. Three high-angle rescue teams with equipment and vehicles
- D. Fifteen ambulances and three strike team leaders

Answer: D

77. What type of fire service personnel would normally be assigned the role of Operations Section Chief?

- A. Usually the company officer of the second-due engine company
- B. An officer with an extensive experience in operations
- C. An instructor or inspector who does not usually respond to routine calls
- D. The last-arriving truck company officer

Answer: B

78. Under what circumstances is the first-arriving officer at a scene in charge, according to the Incident Management System paradigm?

- A. When the first-arriving unit is an engine company only
- B. Under all circumstances
- C. Under no circumstances
- D. As long as the first arriving unit is **not** an engine company

Answer: B
79. If there is no officer on the first-arriving unit, who assumes command?
A. No one, until an officer arrives
B. The person those present select
C. The fire fighter with the greatest seniority
D. Whomever the nearest responding chief officer designates over the radio

Answer: C

80. As more companies arrive at an escalating incident, what is one reason the command structure must expand?

- A. To employ the arriving officersB. To maintain span of control
- C. To allow unity of command
- D. To counter the formation of sectorization

Answer: B

81. The arrival report should contain:

A. a situation evaluation.

- B. the attack mode selected.
- C. the person in command.
- D. All of the above.

Answer: D

82. What kind of heat energy is the heat of compression?

A. Chemical B. Electrical C. Mechanical D. Nuclear

Answer: C

83. Which of the following is a form of electrical heat energy?

A. Nuclear B. Chemical C. Flashover D. Arcing

Answer: D

84. Ignition temperature is the **minimum** temperature required to:

- A. cause a fuel to give off vapors in sufficient quantities to form an ignitable mixture with air.
- B. heat a fuel which will produce vapors sufficient to support combustion once ignited.
- C. heat a fuel to begin self-sustained combustion independent of the heating source.
- D. change a liquid to a gas without introducing an outside source of heat.

Answer: C

85. Which of the following gases **is not** produced in fires?

			B. Hydrogen cyanideD. Oxygen			
_	wer: D The acronym "Bl	_EVE" stands for Boilir	ng Liquid:			
A. Exhausting Vapor ExplosionC. Expanding Vapor Explosion			B. Expanding and Venting ExplosionD. Exhausting Vapor Expansion			
87.		fire fighters respondin density of approximat	=	aks to remember that		
Α.	0.15	B. 1.5	C. 0.6	D. 2.6		
	wer: B LPG is	than air.				
	1.5 times lighter 1.5 times heavier		B. 2 times lighterD5 times heavier			
89.	wer: C While preplannin tem. A Class K sys	g a new business in yo stem be used for:	our run district, you no	otice a Class K fire		
	metal rims. cooking oils.		B. flammable solids.D. electrical boxes.			
90.	wer: C A roof that is eleven	vated in the center and	d with an angular slop	e to the edges is called		
Α. Ι	butterfly	B. dome	C. pitched/gabled	D. double-angle		
	wer: C The primary fire	hazard in fire resistive	e construction is the:			
	structure members lack of walls.		B. contents of the s D. non-fire resistive			
_	wer: B Spalling of concr	ete could lead to early	collapse in Type I bu	ildings because:		
	A. loss of moisture in concrete reduces its fire rating. B. the added weight of broken pieces may cause overload.					

C. it could create void spaces.D. reinforcing steel is exposed to the heat of the fire.						
Answer: D 93. What type of construction has structural members (including walls, columns, beams, floors, and roofs) that are made of noncombustible or limited-combustible materials?						
A. Type I	B. Type III	C. Type IV	D. Type V			
Answer: A 94. Firefighters show	uld know that fire in Typ	e V construction prese	ents:			
A. shortening of steel components.B. breakdown of the concrete members due to the heat buildup.C. extensive spalling.D. high potential for fire extension within the building.						
Answer: D 95. What type of bu wood?	95. What type of building construction is made up of solid heavy timber or laminated					
A. Type I	B. Type II	C. Type IV	D. Type V			
Answer: C 96. Which of the foll	owing is a hazard asso	ciated with truss and li	ghtweight construction?			
A. If one member fails, the entire truss is likely to fail.B. Once a truss fails, the one next to it is likely to fail.C. Trusses will begin to fail after a short period of time of exposure to fire.D. All of the above.						
Answer: D 97. One of the <u>most serious</u> building construction hazards facing firefighters today is the:						
B. increased use of IC. heavy content of f	noncombustible materia ightweight and trussed ire loading. ustible furnishings and	support systems.				
Answer: B 98. Wire reinforced	glass may provide som	e thermal protection as	s a separation.			

A. is **not** an effective barrier to fire extension.

for the most part, conventional glass:

However,

B. is a good barrier to fire extension. C. will not crack due to the heat. D. will contain the fire within that area.						
Answer: A 99. A(n) is designed to prevent the spread of fire within a structure or between adjacent structures.						
A. stop	B. partition	C.	inhibitor	D.	fire wall	
Answer: D 100. A wall used to divide two adjacent structures and also could be used as a fire wall is a wall.						
A. partition	B. party	C.	veneer	D.	cantilever	
Answer: B 101. Which of the fol	llowing <u>is</u> <u>not</u> true of fire	e w	alls?			
A. They may be used as cantilever walls.B. They are used to separate two connected structures.C. They are used to divide large structures into smaller portions.D. They can be veneer walls.						
Answer: D 102. A partition wall:						
 A. is a load-bearing wall. B. presents the greatest danger for building collapse. C. simply divides two areas within a structure. D. has the highest fire resistive rating. 						
Answer: C 103. Construction featuring exterior walls and structural members that are noncombustible or of limited combustible materials without additional fire-resistant protection is Type construction.						
A. I	B. II	C.	III	D.	V	
Answer: C 104. Knowing the effect of fire on common building materials is important since it provides firefighters with during fire fighting operations at a particular occupancy.						
A. detailed actions to perform B. an idea of what to expect						

C. policies for future	direction	D. exact job tasks to perform			
Answer: B 105. The structural elements of buildings of Type I construction are generally required to have a fire resistive rating of hours.					
A. 4 to 6	B. 3 to 4	C. 4 to 5	D. 3 to 5		
	I framing that has verticerupted is a		al channels going from floor to floor, allowing _ frame construction.		
A. platform	B. open	C. balloon	D. box		
Answer: C 107. The fire service	e must be aware that s	synthetic materials used	in buildings:		
A. present a very high fire load.B. are found in interior and exterior finish work.C. produce large amounts of toxic gas when burned.D. All of the above.					
Answer: D 108. What does a C	oncrete Masonry Unit	contain?			
A. Void spaceC. Steel reinforcing r	ods	B. Joinery instructions D. Explosives			
Answer: C <u>Directions</u> : Match the following characteristics of building materials under fire conditions listed in Column A, with their description in Column B.					
Column A Column B					
109. Combustibility 110. Thermal Conductivity 111. Decrease in strength with increased temperature 112. Rate of thermal expansion					

A. How much a material will elongate when heated

- B. Bending, buckling, or meltingC. Whether or not a material will burnD. The speed at which heat flows through

a material

E. Designed to support only the weight of itself

Answer: C,D,B,A

113. Which of the construction materials listed below ignites at fairly low temperatures and is gradually consumed by the fire, weakening and eventually collapsing the structure?

A. Gypsum

B. Wood

C. Steel

D. Masonry

Answer: B

114. <u>Directions</u>: Read the following statements regarding masonry as a construction material and select your answer from choices A through D.

<u>Statement 1</u> The term "masonry" applies to brick, block and stone.

Statement 2 Masonry is inherently resistive to the effects of fire.

Statement 3 Rapid cooling caused by the application of hose streams during

fire suppression can cause a masonry wall to spall, crack or

otherwise deteriorate.

- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statement 1 is false; statements 2 and 3 are true.
- D. All three statements are true.

Answer: D

115. **<u>Directions</u>**: Read the following statements regarding steel as a building construction material and select your answers from choices A through D.

<u>Statement 1</u> Steel by itself is fire resistive.

Statement 2 Steel will both expand and lose strength as it is heated.

Statement 3 There are no accurate indicators that enable fire fighters to predict when a steel beam will fail.

- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statement 1 is false; statements 2 and 3 are true.
- D. All three statements are true.

Answer: C

116. <u>Directions</u>: Read the following statements regarding reinforced concrete as a building construction material and select your answer from choices A through D.

- <u>Statement 1</u> Concrete is usually reinforced to increase its compressive strength.
- <u>Statement 2</u> Fire damage to reinforced concrete <u>primarily</u> consists of spalling.
- Statement 3 Spalling of reinforced concrete can lead to building collapse.
- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statement 1 is false; statements 2 and 3 are true.
- D. All three statements are true.

Answer: C

- 117. <u>Directions</u>: Read the following statements regarding gypsum wallboard as a building construction material and select your answers from choices A through D.
 - Statement 1 Gypsum wallboard has limited combustibility.
 - Statement 2 The high water content of gypsum wallboard provides excellent heat resistance.
 - Statement 3 Gypsum is often used to protect building components such as steel and wood structural members from the heat of a fire.
- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statement 1 is false; statements 2 and 3 are true.
- D. All three statements are true.

Answer: D

- 118. <u>Directions</u>: Read the following statements regarding glass use in constructed buildings, and select your answers from choices A through D.
 - <u>Statement 1</u> Glass is increasingly used for structural support in modern buildings.
 - <u>Statement 2</u> Wire reinforced glass is frequently used in fire doors and windows.
 - <u>Statement 3</u> Conventional glass is <u>not</u> an effective barrier to fire extension.
- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statement 2 is true; statements 1 and 3 are false.
- C. Statement 1 is false: statements 2 and 3 are true.
- D. All three statements are true.

Answer: C

119. Generally, the structural elements of buildings of Type I construction are required

to have a fire resistive	rating of	_ hours.	
A. 4 to 6	B. 3 to 4	C. 1 to 3	D. 3 to 5
Answer: B 120. Three of the fou	ır characteristics of bu	uilding materials under	fire include:
	nductivity, n strength with increas mal expansion.	sed temperature,	
The fourth characteris	tic is:		
A. polymerizability.	B. portability.	C. combustibility.	D. stability.
Answer: C 121. An all metal buil	lding is classified as a	ı:	
A. Type I.	B. Type II.	C. Type III.	D. Type V.
Answer: B 122. Which of the fol	lowing building condit	ions is the most hazar	dous to firefighters?
A. Buildings under deB. Buildings being coC. Buildings being rerD. All of the above	nstructed		
Answer: D 123. Concrete has e	xcellent	strength when it cures	
A. shear	B. compressive	C. torsional	D. tensile
Answer: B 124. Which of the fol	llowing <u>is</u> <u>not</u> a polar	solvent?	
A. Alcohol	B. Acetone	C. Kerosene	D. Ketone
Answer: C 125. Regarding the a hydrocarbon and pola		ng foam, the major diff	ference between
A. hydrocarbons are r C. polar solvents are		B. polar solvents flo D. Both A and C ar	

Answer: C

126. Which of the	126. Which of the following is not an example of a light hazard environment?				
A. Self-storage C. Assembly halls		B. Classrooms D. Hotel guest roo	oms		
Answer: A 127. Light hazard of classified as:	environments <u>usua</u>	<u>IIy</u> contain a limited am	ount of combustibles		
A. Class D.	B. Class A.	C. Class M.	D. Class B.		
Answer: B 128. What two fact certain building area		etermining which risk cla	ass to assign a		
A. Direction and deB. Elevation and coC. Volume and presD. Amount and type	onfiguration of the gissure capacity of sp	iven area rinklers			
Answer: D 129. With regard to firefighter bring to th			ollowing situations would a		
A. The extinguisher has the proper classification and rating for its location.B. The pressure gauge indicates that the extinguisher isn't properly charged.C. The fire extinguisher is hung on the wall and is easily visible and accessible.D. The tag indicates that the extinguisher has been serviced to local laws.					
Answer: B 130. Which of the accident extrication	<u> </u>	s would probably <u>not</u> be	e used for vehicle		
A. Kelly tool	B. Pry bar	C. Clemens hook	D. Halligan tool		
Answer: C 131. Which of the vehicle extrication?	following saw types	would most likely be	used during		
A. Keyhole saw C. Chain saw		B. ReciprocatingD. Coping saw	saw		
Answer: B 132. In what condi	tion should the fuel	tanks on power tools b	e left when <u>not</u> in use?		
A. Full		B. Approximate	ly half full		

C. Almost empty

D. Absolutely empty and dry

Answer: A

133. What guide should be used when cleaning power tools used in ventilation?

- A. The applicable NFPA standard
- B. The ANSI guides on tool maintenance
- C. The manufacturer's instructions
- D. Common sense and a thorough job

Answer: C

134. Harnesses are classified into three categories. Which of the following classes is **not** acceptable as a life safety harness?

A. Class III

B. Class III H C. Class I

D. Class II

Answer: B

135. The initial report given by first arriving companies is called a(n):

A. progress report.

B. accountability report.

A. progress report.C. size-up/conditions report.

D. personnel arrival report.

Answer: C

136. The report given to the incident commander from an interior crew which tells the incident commander that the fire is controlled would be a(n):

A. size-up/conditions report.

B. situation status/progress report.

C. all clear notification.

D. staging report.

Answer: B

137. The only effective measure for protecting firefighters from an imminent building collapse is to:

- A. provide them with OSHA-approved personal protective equipment.
- B. remove personnel from the building.
- C. position them at least two rooms from the expected area of collapse.
- D. have them work in small groups in large undivided spaces.

Answer: B

138. If firefighters inside a building believe that the collapse of a building is imminent, what is the first action that should be taken?

- A. They should wait until the chief gives the order to pull out.
- B. They should have the safety officer inspect the building.
- C. They should have all personnel within the building evacuated.
- D. They should try to extinguish the fire before leaving.

Answer: C

139. Which of the following factors must be taken into consideration when fighting a structure fire?

- A. Building construction
- B. Length of time the fire has been burning
- C. Occupancy type
- D. All of the above.

Answer: D

140. With respect to tactical considerations, the acronym RECEO stands for:

- A. Rapid, Exit, Company, Emergency, and Orders.
- B. Rescue, Exposures, Confinement, Extinguishment, and Overhaul.
- C. Real, Emergencies, Can, Extend, and Operations.
- D. Rescue, Extinguishment, Confinement, Exposures, and Overhaul.

Answer: B

141. You are a firefighter in a forcible entry crew operating at a structure fire in a commercial building. Your crew has pulled the keyway and unlocked the dead bolt on the steel door through which you are trying to gain entry. All that remains to impede you is the cylindrical lock in the door handle. The door is mounted in a wood frame. Which of the following would be the **best** and **fastest** entry method?

- A. Use a battering ram
- B. Cut the hinges with a torch
- C. Force the door with a Halligan tool and a flathead axe
- D. Use a bam-bam tool

Answer: C

142. <u>Directions</u>: Read the following statements, then select your answer from alternatives

A-D below.

To ensure that there is little danger of injury, a fire ax should be carried:

<u>Statement 1</u>: on the shoulder with the edge pointed toward the ground.

<u>Statement 2</u>: with the ax blade away from the body, or protected.

Statement 3: with pick-head axes, the pick should be covered with a hand.

- A. All three statements are true.
- B. Statements 1 and 2 are false: statement 3 is true.
- C. Statement 1 is true; statements 2 and 3 are false.
- D. Statement 1 is false: statements 2 and 3 are true.

	al building that is on fi	ire. You decide t	nny officer to gain access to take a K tool and "the irons.' irons" refer to?
A. Crow bar and a sleet. Pickhead axe and a	dgehammer an adz tool	B. Pryaxe and D. Halligan too	l a maul ol and a flat-head axe
Answer: D 144. Which of the follotools used in rescue in		ne four basic type	es of powered hydraulic
A. SpreadersC. Extension rams		B. Shears D. Struts	
Answer: D 145. Which of the following	owing is designed prir	marily for straigh	t pushing operations?
A. Spreaders	B. Shears	C. Extension rai	ms D. Struts
Answer: C 146. For a circular sa less prone to dulling.	w, a blac	de is superior to	a standard blade because it is
A. large-toothedD. All of the above	B. fine-toothe E.	ed	C. carbide-tipped F.
Answer: C 147. The basic types shears, combination sp		tools used in res	scue incidents; spreaders,
A. extension rams.	B. air bags.	C. chocks.	D. cribbing.
Answer: A 148. When making a maintain structural inte		ıll, a	shape should be cut to help
A. square C. triangular and/or dia	amond	B. circle D. rectangle	
Answer: C 149. Powered hydrau	ulic tools open and clo	se by use of:	
A. air. C. steam.		B. fluid. D. mechanica	I advantage.

Answer: B

150. <u>Directions</u>: Read the following statements regarding maintenance of power tools and equipment, and select your answer from choices A through D.

- <u>Statement 1</u> Power tools and equipment should be cleaned and maintained according to manufacturer and departmental guidelines.
- <u>Statement 2</u> Proper records must be kept to track maintenance, repairs and any warranty work that is performed.
- Statement 3 "Ready state" means the tool or piece of equipment is in proper working order, in its proper place, and ready for immediate use.
- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statement 1 is false; statements 2 and 3 are true.
- D. All three statements are true.

Answer: D

151. Which of the following circular saw blades **should not** be stored near gasoline because the vapors will cause the blade to decompose?

A. Masonry-cutting blades

B. Carbide-tipped blades

C. Metal-cutting blades

D. Diamond tipped blades

Answer: A

152. As firefighters approach a structure that is going to be searched, they should consider the time of day and:

- A. familiarize themselves with the type of building construction.
- B. anticipate occupancy (residential or commercial).
- C. location of doors and windows for emergency exit.
- D. All of the above.

Answer: D

153. Coordination of a search for victims in a structure fire is based on a system of priorities. Of the following, which is the correct listing of priorities from **first** to **last**?

- A. The area immediately around the fire, and the rest of the fire floor, then the area directly above the fire and the rest of the floor, then all higher level floors, from top floor down, to the areas below the fire floor
- B. All higher level floors above the fire floor, from top floor down, then the area immediately around the fire and the rest of the fire floor, then areas below the fire floor
- C. Area below the fire floor first, because that is where victims will retreat to, then the

- area and floor directly above the fire floor, then the fire area and the rest of the floor, then all remaining upper floors from top down
- D. The area and floor immediately above the fire floor, then the fire area and rest of the fire floor, then all higher level floors, then areas below the fire floor

Answer: A

154. Which of the following statements is **incorrect?**

- A. The secondary search is the most dangerous.
- B. Searching a building is completed in two different operations—primary and
- 0

	above the fire.	earch, the team is often	en ahead of attack line	•	ely to
	swer: A 5. When using th	e Blanket Drag, patid	ents should always be	e dragged:	
	feet first. sideways.		B. head first. D. Either B or C	is correct	
	swer: B 6. One thing com	mon to all types of to	usses is that if one m	ember fails:	
В. С.	the entire truss is	t will keep it from faili	ng completely.		
	swer: C 7. Natural roof ve	entilation openings co	onsist of:		
В. С.		l smoke ejectors. kylights, stairwell ope	enings and bulkheads ed across a ventilatior		
		opening is made dire	ectly above a fire, it w	ill tend to	_ the
A.	spread	B. mushroom	C. localize	D. extinguish	
An	swer: C				

159. Which of the following is considered a natural or normal roof opening?

A. Parapet B. Skylight C. Soffit D. Fire stop

Answer: B

160. Whenever possible, forced ventilation should be directed:

- A. on the upward side.
- B. on the windward side.
- C. in the same direction as the wind.
- D. in the same direction as master stream operations.

Answer: C

161. Before cutting an opening in a roof, firefighters should:

- A. inspect their cutting tools for sharpness.
- B. check for natural or existing openings.
- C. open all top windows on the windward side of the building.
- D. open all bottom windows on the leeward side of the building.

Answer: B

162. To localize a fire and create a chimney effect, the primary ventilation hole should be placed:

- A. at the far end of the roof on the leeward side.
- B. directly over the fire.
- C. at the far end of the roof on the windward side.
- D. in an area where supplemental forced or mechanical ventilation can easily be added later, if needed.

Answer: B

163. Which of the following conditions is not a warning sign of unsafe roof conditions?

- A. A spongy feel as you walk on the roof
- B. Melting asphalt roof covering
- C. Multiple layers of roofing materials built upon itself, adding weight to the structural members
- D. Fire coming from the roof

Answer: C

164. Positive pressure ventilation is effective:

- A. when opening of doors and windows in the structure can be controlled.
- B. only if you can create a lower pressure zone in the structure.
- C. if the exhaust opening is smaller than the entry point, creating a Venturi effect.
- D. if an entire floor is ventilated at a time, starting at the highest floor and working down.

Answer: A

165. As a last resort, when ventilating a basement fire, _____ may be used to allow smoke and heat to escape.

A. the HVAC system

B. a hole cut in the floor above the fire

A. the HVAC systemC. a fire stream to break a window

D. positive pressure force

Answer: B

166. The usual cause of collapse of open-web steel joist is the:

- A. amount of heat generated by the fire in a structure.
- B. poor construction methods.
- C. impact load of firefighters jumping onto roof.
- D. unknown (still being researched).

Answer: A

167. What is the consequence of opening windows on the windward side of a building before opening leeward side windows?

- A. There is no consequence; this is the recommended procedure.
- B. The fire may be forced into uninvolved areas of the structure.
- C. There is no consequence; doing so eliminates the need to perform vertical ventilation later.
- D. The need to effect ventilation on the leeward side through excessive window glass breakage.

Answer: B

168. Successful fire attack on structures should be:

- A. coordinated with other activities, such as ventilation and rescue.
- B. only attempted by certified firefighters.
- C. coordinated with overhaul operations to protect contents on the fire floor.
- D. All of the above.

Answer: A

169. Which of the following statements regarding a trench cut is **incorrect?**

- A. The trench cut is an offensive action.
- B. The trench cut is from 2-4 feet wide.
- C. It is not opened until the entire cut is complete.
- D. It is made in coordination with interior crews.

Answer: A

170. A connecting plate used in truss construction that can be made of flat steel stock, light gauge metal, or plywood is the definition of a:

-	: Read the following state er from choices A through D		nts regarding gasoline power saws and		
Statement 1	A saw should always be st going to the roof for verti		ed to ensure it runs properly before ventilation.		
Statement 2	The saw should be run brid operation during the pre-us	•	at full throttle to verify proper check.		
Statement 3	The saw should always be run at full throttle when in actual ventilation use; before the blade touches the roof decking, while cutting, and during removal of the blade from the cut.				
B. Statements 1C. Statement 1 is	 A. Statement 1 is true; statements 2 and 3 are false. B. Statements 1 and 2 are true; statement 3 is false. C. Statement 1 is false; statements 2 and 3 are true. D. All three statements are true. 				
	pressure on a water distribunand is known as		system during periods of ordinary pressure.		
A. normal operat C. atmospheric	iing		residual static		
Answer: A 173. Water well	s and springs are considere	d w	hat type of water supply?		
A. Surface water C. Lake supply	supply		Ground water supply River supply		
Answer: B 174. Direct pum	ping water systems are tho	se i	n which water:		
 A. moves directly into the distribution system by gravity flow. B. is supplied directly into the distribution system from elevated storage tanks. C. is pumped directly into the distribution system with no elevated storage. D. is pumped directly through the distribution system back into the main water supply. 					

B. gusset plate.

C. column.

D. joist.

Answer: C

A. joint.

175. In a water supply system, the size of the water mains from the largest to the smallest are:

	itor, secondary. nary, distributor.		
Answer: D 176. Which of the	following violates the prin	nciple of a loop feed hy	drant?
A. Primary feedersC. Interconnecting		B. Secondary feeder D. Dead-end water r	
Answer: D 177. Which of the hydrant?	following <u>is</u> <u>not</u> one of th	ne component parts of	a dry-barrel fire
A. Operating stemC. Post-indicator g	ate	B. Stem nut D. Drain hole	
Answer: C 178. Which of the	following <u>is</u> <u>not</u> a compo	onent of a grid system?	
A. Primary feedersC. Distributors	;	B. Secondary feeder D. Risers	"S
Answer: D 179. The following	g illustration depicts a	hydrant.	
A. dry-barrel	B. wet-barrel	C. drafting	D. dry
Answer: B 180. Which of the system distribution	following <u>is</u> <u>not</u> one of th?	ne three common syste	ms for water
A. Artesian	B. Direct pumping	C. Gravity	D. Combination
Answer: A 181. The four fund	damental components of	a modern water systen	n are:

- A. source, mains, feeders, and risers.
- B. primary, secondary, standpipes, and subscriber connections.
- C. pipes, valves, hydrants, and pumps.
- D. source, means of moving, treatment plant, and distribution system.

Answer: D

182. A fire hydrant that receives water from only one direction is called a hydrant.

A. one-way B. steamer C. circulating-feed D. dead-end

Answer: D

183. The smaller internal grid arrangement of a water distribution system that feeds hydrants, as well as the domestic and commercial requirements, **best** describes:

A. primary feeders.

B. secondary feeders.

C. distributors.

D. grid network.

Answer: C

184. Large pipes that carry large quantities of water to various points along the water supply system for distribution to smaller mains best defines:

A. primary feeders.

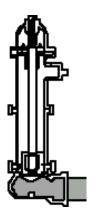
B. secondary feeders.

C. distributors.

D. grid network.

Answer: A

185. The following illustration depicts a _____ hydrant.



A. dry-barrel

B. wet-barrel

C. drafting

D. dry

Answer: A

186. A network of intermediate-sized pipe that reinforces the overall grid system by forming loops that interlock primary feeders **best** defines:

A. primaC. distril	•			secondary feeders grid network.		
Answer: B 187. When checking hydrants to ensure their effectiveness, firefighters should look for all of the following conditions except :						
B. outlet C. comp	 A. obstructions erected near the hydrant that interfere with its operation. B. outlets facing the proper direction with sufficient clearance to the ground. C. components not damaged and all parts operating properly. D. the Post Indicator Valve is fully closed. 					
	ailure to d	open a dry-barrel hydrant ful ntribute to:	ly w	vill result in a reduce	ed amount of available	
	nentation ulty in dra	i. aining the main.		susceptibility to fre ground erosion.	ezing.	
to	ccording	to the NFPA, a hydrant with gallons per minute.	an	orange bonnet or ca	aps may be expected	
A. less t C. 1000				500 to 999 greater than 1500		
	ccording	to the NFPA, a hydrant with -colored bonnet or cap.	a fl	ow rate of 1000 to 1	1499 gpm may have	
A. light l	blue	B. green	C.	orange	D. red	
Answer: B 191. <u>Directions</u> : Read the following statements regarding fire hydrants and select your answer from Choices A through D.						
State	ement 1	The valve that controls the located below ground an		-	parrel hydrant is	
State	ement 2	The drain opening found at feature of dry-barrel hydr			el is an exclusive	
State	ement 3	A dry-barrel hydrant should fully closed.	d alv	ways be either fully	open or	

- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statement 1 is false; statements 2 and 3 are true.
- D. All three statements are true.

Answer: D

192. <u>Directions</u>: Read the following statements regarding fire hydrants and select your answer from choices A through D.

- Statement 1 When inspecting fire hydrants, firefighters should first check visibility and accessibility of the hydrants.
- Statement 2 Hydrants should be positioned so that the connections, especially the large steamer connection are facing the street.
- Statement 3 Trash or other foreign objects placed inside the empty barrels of dry-barrel hydrants can obstruct water flow and/or damage a fire department pumper if they are drawn into the pump.
- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statement 1 is false; statements 2 and 3 are true.
- D. All three statements are true.

Answer: D

- 193. <u>Directions</u>: Read the following statements regarding fire hydrants and select your answer from choices A through D.
 - Statement 1 Mechanical damage to fire hydrants can be caused by many things including nature, vandals, accidents, and improper actions by members of the fire department.
 - Statement 2 Rust and corrosion of hydrants should be noted for referral to the water department during hydrant inspection by firefighters.
 - <u>Statement 3</u> Sedimentation and encrustation can restrict or completely obstruct flow from hydrants.
- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statement 1 is false; statements 2 and 3 are true.
- D. All three statements are true.

Answer: D

194. Which of the following is important to remember in placing a foam line in service using an in-line proportioner?

- A. Check the eductor and nozzle to make sure they are hydraulically compatible (rated for the same flow).
- B. Check to see that the foam concentrate listed on the foam container matches the eductor percentage rating.
- C. Select the proper foam concentrate for the burning fuel involved.D. Attach the eductor to a hose capable of efficiently flowing the rated capacity of the

eductor and the no	zzle.		one of the same same same	on the same of the same
Answer: C 195. Which is the <u>mc</u>	ost common type of fo	am	proportioner used i	n the fire service?
	proportioner proportioner			
Answer: B 196. Ar short-lasting foam.	nozzle is used with a fo	am	solution to produce	a low-expansion,
A. fog C. solid-bore			mechanical blower water-aspirating for	
Answer: A 197. The elements no	eeded to produce qual	ity f	refighting foam incl	ude:
A. aeration, air, water, B. air, concentrate, ed C. proportioner, CO ₂ , D. aspiration, subsurfa	luctor, and CO ₂ . and eductor.			
Answer: A 198. Class A foams a	are essentially wetting	age	nts that	_ of water.
A. increase the viscos C. reduce the surface	ity tension		increase the resista create a higher vap	
Answer: C 199. Aqueous Film F at percer	orming Foam can be unterproportions.	tiliz	ed on hydrocarbon	fires
A. two	B. three to six	C.	ten	D. nine
Answer: B 200. Of the following	characteristics, which	<u>is r</u>	n <u>ot</u> an advantage of	Class A foams?

A. They may be used with regular water stream equipment.

B. They can be premixed with water in the booster tank.C. They have outstanding insulating qualities.D. They can be used on Class A and B fires.					
Answer: D 201. To produce the necessary.	e proper rate of foam or	n flammable l	iquids fire, a	a(n)	is
A. high-volume pump C. fog nozzle)	B. proportion D. aspiration			
Answer: B 202. For application a(n) prir	of aqueous film-formir	g foam, educ	ctors or prop	portioners opera	ate on
A. static pressure	B. venturi	C. inductio	n	D. positive pre	essure
Answer: B 203. Foams in use o	currently are of the med hey can be used.	hanical type	and must be	e	and
A. proportioned, blendedC. mixed, proportioned		B. stirred, aeratedD. proportioned, aerated			
Answer: D 204. Production of a the definition of:	an adequate amount of	bubbles to fo	orm an effec	tive foam blank	ket is
A. proportioning	B. aeration	C. mixing		D. blending	
	kimum effectiveness, us they are intended to be			the s	specific
A. within 10% greate C. plus or minus 5%		B. only at D. within pl	lus or minus	s 2% of	
Answer: B 206. Firefighting foa	ım solution is	percent w	vater.		
A. 95 to 98.6	B. 80 to 85.5	C. 94 to 99	.9	D. 80 to 90.7	
Answer: C 207. The <u>most</u> <u>effe</u>	ctive type of foam for u	se on polar s	solvents is:		
A. alcohol-resistant.		B. Class A	foam.		

C. low/high expansion foam.

D. FFFP.

Answer: A

208. Application rate in relationship to a flammable liquids fire is:

- A. amount of water needed to extinguish a fire.
- B. amount of foam or foam solution needed to extinguish a fire.
- C. ratio of air to water needed to extinguish a fire.
- D. ratio of foam to water to generate an effective foam blanket.

Answer: B

209. Solid bore or solid tip nozzles can be effectively used for foam application with:

- A. Aqueous Film Forming Foam (AFFF). B. Protein foam.
- C. Compressed Air Foam Systems (CAFS). D. Film-Forming Fluoroprotein (FFFP).

Answer: C

210. Which of the following is not one of the ways foam is applied using a nozzle?

A. Raindown or snowflake techniqueB. Bank-in or roll-on techniqueC. Sub-surface injection techniqueD. Bank-down or off the wall technique

Answer: C

211. Friction loss is:

- A. the amount or volume of water that a nozzle will provide.
- B. the force of nature that makes the nozzle move in the opposite direction of the water flow.
- C. the forward pressure of water as it leaves an opening.
- D. that part of total pressure that is lost while water moves through a hose line.

Answer: D

- 212. **Directions:** Read the following statements regarding foam application and select your answer from choices A through D.
 - Statement 1 AFFF can be effectively applied through a standard fire department fog nozzle.
 - Statement 2 Air aspirating foam nozzles or foam nozzle adaptors on standard fog nozzles produce effective, high quality foam.
 - Statement 3 Special aerating nozzles are recommended for use with protein and fluoroprotein foams.
- A. Statement 1 is true, statements 2 and 3 are false.
- B. Statements 1 and 2 are true, statement 3 is false.

- C. Statements 1 and 2 are false; statement 3 is true.
- D. All three statements are true.

Answer: D

213. The four basic methods by which foam may be proportioned are: Injection, Premixing, Induction, and:

A. Venturi.

- B. Batch-mixing. C. Patch-mixing.
- D. Aeration.

Answer: B

214. **Directions:** Read the following statements regarding class B foam application and select your answers from choices A through D.

An important variable in effective rate of application is the type of Statement 1

foam concentrate used.

Statement 2 The rate of foam application must be high enough to cover the

surface and maintain a blanket on top of the liquid.

Statement 3 Unignited spills require the same foam application rates as

ignited spills.

A. Statement 1 is true; statements 2 and 3 are false.

- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statements 1 and 2 are false; statement 3 is true.
- D. All three statements are true.

Answer: B

215. Foam, rather than water, is chosen to control a hydrocarbon fire because:

- A. it cools more effectively.
- B. it is soluble, which allows it to dilute the fuel concentration.
- C. its specific gravity is greater than that of the burning fuel.
- D. its specific gravity is less than that of the burning fuel.

Answer: D

Directions: Match the following terms in Column A with the correct definition in Column B.

Column A Column B

216. Foam concentrate

217. Foam proportioner

218. Foam solution

B. Before air is introduced intoC. Raw foamD. Completed product	product		
Answer: C,A,B 219. All of the following are m	nethods by whi	ch foam may be prop	portioned <u>except</u> :
A. induction. B. batch	n-mixing. (C. ingestion.	D. premixing.
Answer: C 220. Which of the following st	tatements is <u>co</u>	orrect regarding foar	m application.
A. You should always apply foB. High expansion foam is useC. Fog nozzles can be used wD. Fog nozzles are best used	ed at 20:1 ratio vith AFFF on po	n. olar solvent fires.	
Answer: D 221. The part of the total pres fire hose, and adapters is calle		st when water is forc	ed through pipe, fittings,
A. residual pressure.C. friction loss.		B. flow pressure.D. static pressure.	
Answer: C 222. In high-rise firefighting s	ituations, typic	ally the fire attack wi	III be initiated from:
A. the fire floor.C. one floor above the fire.		B. one floor below D. two floors below	
Answer: B 223. If there is adequate vent gases present.	tilation, steam	from a water fog will	the toxic
A. compress B. abso	orb	C. displace	D. contain
Answer: C 224. Solid streams are prefer	rred whenever:	:	
A. a large volume of smoke isC. firefighters need a protective	present. e curtain.	B. reach and pener D. forced ventilation	tration are needed. n is necessary.
Answer: B 225. Hose from a high-rise pa floor the fire floor			

A. Introduces foam into the water

the fire floor.						
A. below; up	B. above; up	C. below; down	D. above; down			
Answer: A 226. All of the following are <u>true</u> regarding the use of a fog stream on an interior fire attack <u>except</u> :						
A. discharge pattern can be adjusted to suit the situation.B. is not affected by wind.C. can aid in ventilation.D. provide maximum protection to firefighters.						
Answer: B 227. When filling a approximately		or testing, a pump press ned.	ure of			
A. 25-30	B. 45-50	C. 80-90	D. 250			
Answer: B 228. When conduct	ing a hose service te	est, after charging the ho	seline with water:			
C. tighten each coup	number of firefighte ling as tightly as pos	rs controlling each line.				
Answer: A 229. After the proper fire hose, pressure sl		peen reached during an for a period of:	annual service test on			
A. thirty seconds.C. three to five minute	es.	B. one to three min D. twenty minutes.	utes.			
Answer: C 23 T While inspecting a length of hose, prior to conducting a service test, you find a 0. F damaged coupling. You may proceed to test the hose at reduced pressure.						
Answer: F 231. The <u>maximum</u> length of time that fire hose should be used without a service test is:						
A. six months.	B. one year.	C. three years.	D. five years.			
Answer: B 232. When laying o	ut fire hose to be ser	vice tested, test lengths	should be:			

A. no more than 150 feet.C. no more than 500 feet.		no more than 300 no more than 200	
Answer: B 233. A record should be keeper of should be re		f fire hose; informa	tion consisting
A. the gallons per minute fleB. the annual number of fireC. the date and results of theD. number of threads per in	e responses at which ne annual test	it was used	
Answer: C 234. To determine whether	er there is any slippage	e of couplings whe	n testing hose:
A. measure and mark the each of B. mark the hose by each of C. check to see whether co D. use a special torque wre	coupling using a penci ouplings remain tight.	. •	
Answer: B 235. When testing fire hos make sure that each nozzle		water and, during t	he filling process,
A. receives the same gpm.B. is closed and strapped inC. is held by a firefighter who. is open until all air is discovered.	n place. hen discharging water		
Answer: D 236. The type of hose test	ing conducted by the	fire department is	called:
A. acceptance. B. p	ressure. C.	service.	D. fire ground.
Answer: C 237. Which of the following Inspection, Care and Use of Hose:	9		
A. 1962 B. 19	987 C. 19	972 D). 1971
Answer: A 238. Risk management is:			
A. a collection of document	ts that includes all fed	erally promulgated	regulations for all

- federal agencies.
- B. the process of minimizing the chance, degree, or probability of damage, loss, or injury.
- C. the result of a series of events and conditions that lead to an unsafe situation resulting in injury and/or property damage.
- D. a formal gathering of incident responders to help defuse and address stress from a given incident.

Answer: B

239. Which of the following items would not be found in the risk/benefit philosophy of a risk management plan?

- A. Where no life can be saved, no risk shall be taken by firefighters.
- B. Situations endangering valued property shall cause firefighters to take a calculated and weighted risk.
- C. Where no life or valued property can be saved, risk may be taken by firefighters.
- D. Significant risk to the life of a firefighter shall be limited to those situations where the firefighter can potentially save endangered lives.

Answer: C

240. All of the following are times or events when the Incident Commander may call for PAR **except** when:

A. initial size-up is completed.B. incident is declared under control.C. there is a change in strategy.D. there is an emergency evacuation.

Answer: A

241. The two-in/two-out regulation came from the federal agency called the:

- A. Environmental Protection Association.
- B. Department of Transportation.
- C. Occupational Safety and Health Administration.
- D. United States Fire Administration.

Answer: C

242. A Rapid Intervention Crew/Team is defined as:

- A. any combination of single resources assembled for an assignment.
- B. the designation for a set number of resources of the same type and kind.
- C. a company designated to search for and rescue trapped firefighters.
- D. a designated group that is used for rapid knock down of wildland fires.

Answer: C

243. A report that is made to the Incident Commander signifying that companies working in the hazard zone are all safe and accounted is called:

A. the all clear signal.

B. PAR.

C. loss is stopped.

D. status report.

Answer: B

244. When asked to maintain team integrity, you should always:

- A. be in physical contact with your partner.
- B. be in verbal contact with your partner.
- C. be in visual contact with your partner.
- D. All of the above

Answer: D

245. Hidden fire can be checked by using a(n):

- A. detector for different levels of carbon monoxide and oxygen.
- B. Halligan tool to remove the whole wall.
- C. plaster tool from the opposite side of the wall.
- D. electronic/infrared heat sensor.

Answer: D

246. Before beginning overhaul, it is vital to make sure the building is:

A. completely saturated with water. B. structurally safe.

C. free of toxic gases and smoke. D. thoroughly dewatered.

Answer: B

247. The **least desirable** method of detecting fire in concealed spaces is by:

- A. looking for discoloration, peeling, or cracked materials.
- B. feeling the area in question.
- C. listening for popping, cracking, or hissing sounds.
- D. smelling for smoke.

Answer: D

248. Before starting a search for hidden fires, the building's condition must be determined. The amount of water used to control a fire indicates:

- A. that there may be additional weight on walls and floors.
- B. the likelihood that the fire was a result of arson.
- C. how many firefighters will be needed for overhaul.
- D. how many salvage covers will be needed.

Answer: A

249. Which of the following <u>is not</u> a major consideration when addressing the possibility of a building collapse during overhaul?

A. Ankle-deep water on floors and burned-out trusses

B. Steel beams that have been exposed to extensive heat and fire C. Smoldering debris D. Spongy floors and roofs Answer: C 250. When determining the structural condition of a building following a fire, it is important to consider the: A. amount of smoke and steam being emitted from the building. B. the type of construction vs. the tools the firefighter has available. C. intensity of the fire and amount of water used to control the fire. D. age and overall value of the building. Answer: C 251. During overhaul operations: A. the engine company should be returned to the station. B. all apparatus should remain at the scene. C. all truck companies should be returned to the station. D. one or more charged attack lines should stay with the overhaul crew. Answer: D 252. During overhaul, firefighters should wear: A. boots and gloves; coats and helmets are unnecessary. B. lightweight clothing, due to residual heat. C. full protective gear, including SCBA. D. full protective gear; SCBA is not needed. Answer: C 253. Once a fire investigator has completed the work required in gathering evidence and information from a fire scene, a thorough _____ can be done. A. ventilation B. demobilization C. inventory D. overhaul Answer: D 254. **Directions:** Read the following statements regarding inverters and select your answer from choices A through D. Statement 1 Inverters are usually used to power one or two lights mounted directly on the apparatus. Statement 2 Most power inverters produce enough power to run high intensity

lighting equipment, large power tools and ventilation fans.

Statement 3 Connecting devices that draw too much current to an inverter can

seriously damage it.

В. С.	Statement 1 is	s false; sta and 3 are	tements 2 and 3 atements 2 and a true; statemen e true.	3 are true.		
25	•	_	enerators shoul p that could fou			to
A.	15 to 30 minu	tes B. a	t least 1 hour	C. 5 minutes	D. 2	to 3 minutes
25			the following statest, and select	_	•	•
	Statement 1 There is no need to check generator fuel and oil levels before conducting the test because they were topped off after the last test or use.					
	Statement 2	listen a	e generator, con as the engine re age output.			
		•	mpletion of test es before shuttir		ine to idle for	
В. С.	Statement 1 is true; statements 2 and 3 are false. Statements 1 and 2 are true; statement 3 is false. Statements 2 and 3 are true; statement 1 is false. All three statements are true.					
	swer: C 57. Refueling a	a hot gaso	oline-powered s	aw is <u>best</u> acc	omplished by:	
В. С.	allowing the saw to cool before refueling. using a funnel to prevent vapors from escaping. installing flame arrestors at the fuel opening. wearing full protective clothing.					
	swer: A 58. Electrical _		are used wh	en multiple cor	nnections are n	eeded.
	cords inverters			B. junction	boxes	3)

Answer: B

259. Lighting equipment can be divided into two categories:

A. inverters and generators.

B. emergency and nonemergency.

C. auxiliary and installed. D. fixed and portable.

Answer: D

260. **<u>Directions</u>**: Read the following statements regarding inverters and select your answer from choices A through D.

<u>Statement 1</u> If a fire building's electrical service has been interrupted, power for lighting or tools can be supplied by either a generator or inverter.

Statement 2 Inverters convert 12-volt DC from a vehicle's electrical system to 110-volt AC power.

<u>Statement 3</u> An inverter can provide an unlimited amount of AC current.

A. Statement 1 is true; statements 2 and 3 are false.

- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statement 1 is false; statements 2 and 3 are true.
- D. All three statements are true.

Answer: B

261. The last thing you should do once maintenance is complete on a gas-powered generator which has been placed back on the apparatus is to:

- A. document the work completed in a log book.
- B. clean the work area.
- C. notify your officer that the work is done.
- D. contact the manufacturer if you found a problem.

Answer: A