

APPALACHIAN SEARCH & RESCUE CONFERENCE, INC.

FIELD TEAM MEMBER WRITTEN TEST^o - BETA VERSION 1.2

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SAR LEGAL ISSUES

- 1 In Virginia, jurisdiction for a search within a National Park boundary is held by:
 - a. state police
 - b. DES
 - c. National Park Service
 - d. Sheriff
 - e. all of the above
- 2 The authority for removal of bodies from a military aircraft crash rests with the:
 - a. State attorney general
 - b. local coroner
 - c. military police
 - d. surgeon general
 - e. none of the above
- 3 The primary function of the Air Force Rescue and Recovery Center (AFRCC) is:
 - a. coordinate all inland SAR;
 - b. direct military SAR operations;
 - c. direct all inland SAR; or
 - d. coordinate military SAR operations.
- 4 A Responsible Agent is:
 - a. the person by law responsible for SAR in a jurisdiction;
 - b. the person by custom responsible for SAR in a jurisdiction;
 - c. the person by default responsible for SAR in a jurisdiction; or
 - d. the person by appointment responsible for SAR in a jurisdiction.
- 5 If an aircraft does not have a flight plan, when will a search start?
 - a. estimated time of arrival plus 1/2 hour;
 - b. estimated time of fuel exhaustion plus 1 hour;
 - c. when reported missing; or
 - d. estimated time of fuel exhaustion plus 1/2 hour.
- 6 Which one of the answers below is NOT a condition required to prove negligence?
 - a. There was a duty to act;
 - b. There was no breach of duty;
 - c. The patients condition worsened as a result of care of lack of care, or
 - d. Damage occurred.
- 7 Informed consent has two parts and they are:
 - a. the person understands the nature of the procedure and agrees to having it done;
 - b. the person agrees to having the procedure done
- 8 and has the mental capacity to make that agreement;
 - c. the person agrees with the diagnosis and to the treatment; or
 - d. the person understands the nature of the procedure and has the mental capacity to make a judgement.
- 9 TRUE or FALSE
- 10 The Good Samaritan Law is a Federal law covering all states.
- 11 The Good Samaritan law protects emergency care providers from:
 - a. negligence
 - b. civil suits
 - c. liability
 - d. traffic violations while driving emergency vehicles
- 12 The parts of negligence that must be proven in order for a plaintiff to successfully sue for negligence include:
 - a. defendant had a duty to act
 - b. defendant failed to provide the standard of care
 - c. actual harm occurred to the plaintiff
 - d. the plaintiff's damages or injuries were caused by the defendant
 - e. all of the above.
- 13 If an EMS provider on a field team begins treatment of a patient in the field, and later turns the patient over to another medic of lesser training, the initial medic may be guilty of:
 - a. malpractice
 - b. libel
 - c. abandonment
 - d. slander
- 14 Implied consent:
 - a. allows treatment of an unconscious subject
 - b. is necessary to treat minors
 - c. may contribute to negligence
 - d. is the same as informed consent
 - e. a and d
- 15 Entry upon private property may be justified when:
 - a. SAR teams have reason to believe the subject may have crossed the area
 - b. the properties owner have marked the area as private
 - c. the local authorities have indicated the area needs to be searched
 - d. the searchers believe life or property may be at stake

- 14 Who has the right to declare an individual dead in VA, MD, or PA?
- a police officer
 - a physician
 - may depend on extent of damage
 - a and b
 - b and c

15 TRUE or FALSE

The good samaritan law protects emergency care providers from negligence.

16 During a search you come across a subject who is unconscious. Which of the following types of consent can you legally assume in order to treat the subject?

- expressed consent
- implied consent
- informed consent
- parental consent
- two consenting adults

17 When a SAR person encounters a crime scene they must:

- keep all others away from it, using force if necessary.
- leave it undisturbed if at all possible.
- determine the status of any victims only after law enforcement personnel have checked for clues.
- all of the above

18 The _____ is responsible at the national level for land-SAR.

19 The _____ is responsible in the United States for maritime-SAR.

MEDICAL-TRAVEL-SURVIVAL

20 When you sleep on a cold surface, without adequate insulation between yourself and the surface, a primary method of heat loss will be:

- radiation
- conduction
- convection
- respiration
- all of the above

21 At what air temperature could hypothermia not occur?

- 20 degrees Fahrenheit
- 40 degrees Fahrenheit
- 60 degrees Fahrenheit
- 80 degrees Fahrenheit
- none of the above

22 Signs of hypothermia include:

- shivering, dark urine, rash
- blurred vision, stumbling, reduced sensory perception
- frozen extremities, reduced level of

- consciousness, slurred speech
d. shivering, slurred speech, stumbling

Match the best alpha response to the following 4 items

- profuse sweating
- low body temp
- high blood pressure
- loss of ability to sweat
- frozen tissue

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- 23 _____ Frostbite
- 24 _____ Hypothermia
- 25 _____ Heat Stroke
- 26 _____ Heat Exhaustion

27 TRUE or FALSE

Severely hypothermic patients should be moved very gently.

28 TRUE or FALSE

Assume you find a person who is injured and, then after initiating treatment, can you leave the person alone because you have been ordered to return to base?

29 TRUE or FALSE

If a person is obviously in need of medical care (say the person is bleeding profusely), yet the person refuses to be treated, can you force the individual to accept medical care?

30 TRUE or FALSE

To keep your body from cooling you need to keep your energy level up, eat high calorie foods, and expend lots of energy through hard work.

31 TRUE or FALSE

It is advisable to thaw a frost bitten foot before attempting to walk out of the wilderness.

32 Why is it important for you to eat constantly while performing a search task?

- You won't get food ate any other time.
- You will dehydrate if you don't eat.
- You need constant energy and eating small amounts of food constantly assures a steady energy supply.
- You do not have to eat constantly. This is an old wives tale.
- There won't be any food left at base, base twinkees eat everything in sight.

33 TRUE or FALSE

During a field task I should drink water even when I'm not thirsty.

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34 I feel a hot spot on my left foot. I should:

- a. stop and put moleskin on it.
- b. stop and change socks.
- c. press on, this is not a problem
- d. none of the above

CLOTHING AND EQUIPMENT

35 ASRC minimum personal equipment includes:

- a. 48 hours food, trash bags, VHF radio
- b. 2 light sources, whistle, compass
- c. 20' of 1" webbing, fire source, day pack
- d. knife, tent, appropriate clothing
- e. b and d

36 TRUE or FALSE

Carabiners should be kept lightly oiled so that they will work well.

37 TRUE or FALSE

Synthetic fibers commonly used in outdoor clothing tend to wick water rather than absorb water.

38 TRUE or FALSE

Waterproof garments that prevent rain from reaching the wearer will keep the wearer dry.

39 "Dressing Cold" means:

- a. wearing enough layers of clothing to keep you from getting cold when not exercising
- b. wearing minimal amounts of clothing during training missions to build up the bodies tolerance to cold
- c. wearing layers of clothing of sufficient warmth to make the wearer comfortable, yet not sweating, during exercise
- d. none of the above

40 When exposed to cold conditions, it is important to:

- a. dress in layers
- b. avoid sweating
- c. avoid drinking water
- d. maintain homeostasis
- e. all except c

41 Down filled clothing or sleeping bags lose their insulating value when the down becomes wet, this can be corrected by:

- a. using a polypropylene liner next to your skin to wick moisture away
- b. treating the down with silicone to prevent "wetting"
- c. covering the bag with a waterproof tarp
- d. none of the above

42 Wool is considered a very good fiber for construction of wilderness clothing because it:

- a. wicks moisture well
- b. is naturally homeostatic

43 TRUE or FALSE

Cloth with a good tight weave will provide greater insulating value than loose woven cloth of the same weave, especially when covered with a waterproof/windproof shell.

44 TRUE or FALSE

Covering the head is rarely a good idea in cold weather, as the body may "overheat" the head in its attempt to keep the rest of the body warm, thus leading to elevated temperature in the cerebrum and eventual loss of consciousness.

45 Of the following types of fabrics, which should not be worn next to the skin?

- a. capilene
- b. cotton
- c. polypropylene
- d. thermax

46 It is 35 degrees Fahrenheit and you are given a field task. You put on your down parka over the uniform shirt you have been wearing at base. You are now:

- a. properly equipped for the task providing it doesn't rain
- b. at risk of becoming hypothermic during the task
- c. going to get yelled at by Peter McCabe
- d. all of the above
- e. b and c only

47 What does WWW stand for?

- a. wear warm wool
- b. wool wears warmer
- c. warm wearing wool
- d. warm when wet

50 Sleeping bags should incorporate materials that:

- a. retain insulating value when wet
- b. repel moisture
- c. "breath"
- d. all of the above
- e. none of the above

51 List 2 warm-when-wet materials

52 Why is layering better than one heavy jacket?

53 List 5 essential items that could always be in your 24-hour search pack.

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54 In selecting personal equipment, what are useful selection principles?

- a. quality, price, versatility;
- b. price, function, versatility;
- c. function, quality, price, versatility; or
- d. versatility, price, function, weight

AIR OPERATIONS

55 After a helicopter pilot has made eye contact and given the OK to approach, you should approach the helicopter from:

- a. behind
- b. side
- c. front
- d. uphill

56 When approaching a downed aircraft to check for survivors, you should approach from:

- a. uphill, upwind
- b. downhill, upwind
- c. uphill, downwind
- d. downhill, downwind

57 What should be taken into account when setting up an LZ?

- a. size of the helicopter
- b. wind strength and direction
- c. terrain conditions
- d. all of the above
- e. none of the above

58 You arrive on the scene of an aircraft search and find the pilot decapitated. After you've regained your composure, you radio base, secure the net, and report a find of what type?

- a. status 1
- b. status 2
- c. status 3
- d. gross and dead

59 What electronic device may be used by searchers on an aircraft search?

- a. flagging tape
- b. ELT
- c. DF
- d. none of the above

60 When approaching a helicopter one should:

- a. approach from the rear
- b. wear a baseball cap to protect the head
- c. establish eye contact with the pilot
- d. jump and touch the rotor disk

61 In a downed aircraft search, who should approach the scene?

- a. IC and Ops officer
- b. FTL and radio operator
- c. FTL and medic
- d. Medic and CAP officer
- e. Surgeon general

62 What is the standard size of an LZ?

COMMUNICATIONS

63 What should be the first message to radio in to base when a search team finds a subject?

- a. "Base this is _____. We have located the subject."
- b. "Base this is _____. We have a status _____ find."
- c. "Base this is _____. Clear the net."
- d. "We found him!"

64 When answering yes over the radio, the correct term is:

- a. yes
- b. affirmative
- c. correct
- d. uh-huh

65 What is the ASRC radio identifier?

- a. AK81924
- b. KA91842
- c. KA81942
- d. AK18924
- e. none of the above

66 Which term indicates you have completed your radio conversation but will continue to monitor your radio?

- a. out
- b. over
- c. clear
- d. 10-4

67 Spell out the following letters using the phonetic alphabet (i.e., Y = YANKEE)

X	H
R	I
A	K
Y	E
M	R
T	W
O	
S	U

68° You are out in the field on a search task and can not receive or transmit. What can you do to improve communications?

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76 In 25 words or less, describe the ASRC call-out mechanism.

OPERATIONS

- 69 Which three positions should be filled on every team?
- a. FTL, medic, FTM
 - b. FTM, medic, radio operator
 - c. Ops, plans, IC
 - d. FTL, medic, radio operator
- 70 The title of the person in charge of managing an ASRC search is:
- a. Ops officer
 - b. Responsible Agent
 - c. ICS
 - d. IC
- 71 The ASRC is a recognized SAR resource of which agency?
- a. VaDES
 - b. County Sheriffs association
 - c. BOD
 - d. RACES
- 72 What is an interview task?
- a. interrogating an individual so as to get the information you want from him
 - b. describing the subject and asking if they've seen him/her
 - c. asking persons within the search area if they've noticed anything out of the ordinary
 - d. all of the above
- 73 List the 4 key staff positions in the Incident Command System (ICS).
- _____
- _____
- _____
- _____
- 74 List 4 human resources available for search and rescue operations.
- _____
- _____
- _____
- _____
- 75 As a Field Team Member, your job when interacting with the family is as a/an:
- a. listener
 - b. informant
 - c. interrogator

- 77 Define an ASRC Field Team
- 78 Define Status 1, 2, and 3.
- _____
- _____
- 79 What resource typically has a higher POD?
- a. Helicopter
 - b. Grid Searcher
- 80 Define the Mattson Consensus Method
- 81 As an FTM, if you notice that the FTL is doing a rotten job, compromising the safety of the field team; you should:
- a. in front of everyone, demand the FTL step down.
 - b. make suggestions as to how the job might be done.
 - c. completely ignore the problem.
 - d. demand the radio, and then call base to explain your concerns.
 - e. wait until you return to base and then to the FTL's boss.
- 82 If the Press were to approach you asking questions about the search's progress, how would you respond?
- 83 How do trailing/tracking dogs differ from air-scenting dogs?
- 84 When working with an air-scenting dog, who is usually in charge of the team?
- _____

MANAGEMENT

- 85 The incident command system is not designed to:
- a. facilitate a manageable span of control
 - b. allow SAR groups to keep track of resources in the field
 - c. be easily expanded using modular organization

- d. include a search operation plan
- e. support integrated communications.

86 TRUE or FALSE

The incident command system designates five positions from which all incident functions are conducted.

87 TRUE or FALSE

ICS is composed of functions, rather than people.

88 What is the function of the...

- a. Field Team Leader
- b. Communications Officer
- c. Rescue Specialist
- d. Evac Team
- e. Personnel Officer

89 When you report to an incident base, you sign in at:

- a. Plans;
- b. Operations;
- c. Logistics; or
- d. Finance.

90 When your team is ready to go into the field, who will give your team its task assignment?

- a. Plans;
- b. Operations;
- c. Logistics; or
- d. Finance.

91 You've gotten your TAF and need a radio, where do you go?

- a. Plans;
- b. Operations;
- c. Logistics; or
- d. Finance.

92 You return from your task. Someone from _____ will debrief your team leader.

- a. Plans;
- b. Operations;
- c. Logistics; or
- d. Finance.

93 Which incident command section determines what strategies and tactics will be used in a search?

- a. Plans;
- b. Operations;
- c. Logistics; or
- d. Finance.

94 There are 5 principle reasons that the Incident Command system works as a management system in emergency operations. Which of the following is NOT one of them.

- a. Common terminology;
- b. single command source;
- c. common structure; or
- d. common use of ten signals

ROPE AND RESCUE

95 Who is responsible for supervising roped travel?

- a. Field Team Leader;
- b. Medic;
- c. Radio Operator; or
- d. Rescue Specialist

96 As a field team member would you normally be a part of a technical rescue team?

- a. Yes
- b. No

97 When preparing to rappell, you should call what to the belayer before touching the rope?

- a. on belay
- b. rappelling
- c. on rope
- d. belay on

98 Which of the following is not generally used for rappelling?

- a. Gibbs
- b. Figure 8
- c. Carabiner
- d. harness
- e. leather gloves

99 When using semi-tech to ascend a hill, the uphill rope handler becomes:

- a. litter captain
- b. downhill rope handler
- c. belayer
- d. not necessary

100 What type of rope is preferred by most rescue groups for rescue work?

- a. dynamic kernmantle
- b. laid hemp
- c. kevlar braided
- d. static kernmantle

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101 List 3 types of RESCUE teams and how they are used

102 Distinguish between Static and Dynamic Rope and a typical situation when each type is used.

Static:

Dynamic:

103 TRUE or FALSE

"Kernmantle" is a name given to the type of rope that is made with a woven outer core and continuous inner fibers.

104 Knots in a rope reduce the strength of the rope by:

- a. 25 %
- b. 50 %
- c. 75 %
- d. 100 %
- e. can not be answered the way question is asked

105 The square knot is used to:

- a. join two ropes of the same size;
- b. join two ropes of different sizes;
- c. make a stopper knot at the end of a rope; or
- d. climb up a rope.

106 The Figure-Eight knot is used to:

- a. climb up a rope;
- b. join two ropes of the same size;
- c. join two ropes of different sizes; or
- d. make a stopper knot at the end of a rope.

107 The fisherman's knot is:

- a. a permanent knot;
- b. used just for webbing;
- c. used for climbing a rope; or
- d. an easy knot to remove.

108 When climbing rock or ice, you should use a:

- a. dynamic rope;
- b. static rope;
- c. both dynamic and static; or
- d. neither type of rope.

109 TRUE or FALSE

"Stacking" is a term used for piling rope in a random fashion so that it plays out easily.

110 A hoist wire from a helicopter can become highly charged with static electricity. Therefore:

- a. make sure you ground the wire with a grounding wire.
- b. allow the wire to touch the ground before you handle it.
- c. grab the wire and hold it firmly.
- d. ask the helicopter to land to discharge the static electricity.

SEARCH

111 When should attraction searching not be used?

- a. when attraction is likely to lead the subject to a hazard.
- b. when subject is evasive
- c. in severely cold weather
- d. in mountainous areas
- e. both a & b

112 A clue is flagged with:

- a. 1 flag
- b. 2 flags
- c. 3 flags
- d. 4 flags

113 Interior boundaries (ie. temporary) are flagged with:

- a. 1 flag
- b. 2 flags
- c. 3 flags
- d. toilet paper

114 Attraction is a search technique that may employ:

- a. whistling
- b. fires
- c. pheromone
- d. yelling
- e. all except c

115 In SAR, containment may include:

- a. patrolling roads and trails to keep subject from leaving search area
- b. using your skills to keep dangerous substances from leaking from downed aircraft
- c. using string or flagging tape to physically blockade the area
- d. all of the above
- e. a and c only

116 A sweep search is:

- a. another name for grid search
- b. a type of hasty search
- c. a loose line search
- d. used to clean up base after a search

117 Cutting for sign is:

- a. a quick search, generally across the subject's suspected line of travel, looking for signs of passage
- b. synonymous with tracking

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- c. done only by dog teams
- d. not used is SAR

- 118 A hasty search is:
- a. a fast search done only by the police
 - b. a form of sweep search employing containment
 - c. done only on linear features
 - d. a quick search for a responsive subject or obvious clues

- 119 When lost in the woods, it is best to:
- a. remain where you are
 - b. move quickly before night fall
 - c. keep moving until you find a landmark
 - d. quickly begin a search for food

- 120 Which of the following resources might be used in a search?
- a. Pizza Hut
 - b. Fire Dept. Volunteers
 - c. Rescue Squad Volunteers
 - d. Dogs East
 - e. all of the above

- 121 What is P.O.D.
- a. Probable Order of Detection
 - b. Personal Odor Detection
 - c. Probability of Detection
 - d. Poor, Old, and Dead

- 122 What does the "STOP" mnemonic stand for?
- S
T
O
P

123 Define POA and what it means

124 Define POD and what it means

125 On any SAR incident, every one should always be concerned about _____, both for themselves and for the other emergency providers.

126 Search is a classic _____, where we search for _____, not the _____.

- 127 When you first find a clue indicating the missing person was truly once at your present location, list at least 4 concerns you should have:
- a. _____
 - b. _____
 - c. _____

- d. _____
- 128 Give 2 examples of attraction you could use while on a field team.

- a. _____
- b. _____

129 List 3 examples of containment.

- a. _____
- b. _____
- c. _____

130 Which search task generates a higher POD?

- a. Sweep
- b. Line

131 All things being equal, which task takes longer to perform?

- a. Sweep
- b. Line

132 A scratch search task contains about _____ to _____ field team members, and is usually assigned to search a _____ feature.

133 Mantrackers can do which of the following most efficiently:

- a. gross clue detection;
- b. string line placement;
- c. attraction; or
- d. aging sign

134 In the first phase of a missing person search, which is the primary tactic?

- a. containment and attraction,
- b. line search and containment;
- c. hasty search and containment; or
- d. locale search and hasty search.

135 TRUE FALSE

Successful missions are suspended, unsuccessful missions are closed.

MAP/COMPASS & LAND NAVIGATION

136 One of the many techniques of orienteering is to "Aim Off." Which of the following definitions best fits? AIMING OFF is the process of:

- a. accounting for the difference between true and magnetic north.
- b. setting your compass dial to aim off your present location when determining the direct path to the next point.
- c. using the local terrain features to help guide you as you follow your compass bearing.
- d. purposely introducing an error in your direction of travel in order to minimize your uncertainty when you intersect a catching feature.

137 TRUE or FALSE

An orienteering path is best planned forwards, going from the starting point to the ending point.

138 A circle contains _____ degrees.

1 degree = _____ minutes of arc.

1 minute of arc = _____ seconds of arc.

139 Write a single sentence definition for:

Latitude

Longitude

Declination

140 Given you are on a mountain and you sight a downed aircraft with a bearing of 168 degrees magnetic, what is the reciprocal magnetic bearing?

141 Given that you are in Maine with a declination of 22 degrees west, what is the reciprocal true bearing? _____ What was the original true bearing? _____

142 Using map Bravo, write down the proper ASRC grid coordinates for the following points:

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

143 For the standard topo map (7.5 x 7.5 minute quadrangle, what is the distance between the ASRC coordinates A1523 and A1533?

144 Using map Alpha, identify the objects depicted by the map symbols at locations:

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____
- f. _____
- g. _____
- h. _____
- i. _____
- j. _____

145 You are on map Alpha in the following assigned area:

Your Altimeter reads 2200 feet.
You are on a fire road.
You see Greenwood Hollow to the south.

You determine you are at the following ASRC

coordinate:

146 Define collecting feature.

147 On a 1:12000 scale map, 1 inch = _____ feet, and 1 cm = _____ meters.

148 You are on a compass course and come up to a lake. In the space below, show how you might move around a lake that is between you and the next orienteering point (indicate where you would have to pace off your route):

149 What is the latitude of the North Pole?

- a. 90 degrees North
- b. 180 degrees North
- c. 0 degrees North
- d. 90 degrees South

150 What is the longitude of the Greenwich Observatory in England?

- a. 90 degrees West
- b. 0 degrees East
- c. 0 degrees South
- d. 90 degrees East

151 What is the phonetic code name for the Greenwich Observatory in England?

152 What time is it in ASRC-land, when someone says it's 0500 hours (Greenwich) time.

153 What is the latitude of the equator at the prime meridian?

- a. 90 degrees North
- b. 180 degrees North
- c. 0 degrees North
- d. 90 degrees South