

APPALACHIAN SEARCH AND RESCUE

SHENANDOAH MOUNTAIN RESCUE GROUP

Written Examination

for

Certified Basic Membership

Version 091086PT

NAME

Greg Shea

SECTION 1A SURVIVAL

- How long can the average person function without water?
- 10 days
 - 3 days
 - 2 weeks
 - ☒ 1 day
2. Insulation is anything that has the following quality:
- ☒ dead air space
 - many layers
 - close weave material
 - waterproofing
3. Rank the following priorities to consider in a survival situation:
- food
 - ☒ shelter
 - ☒ water
 - becoming unlost
4. What is the most important thing to be able to use properly in an emergency situation? *BRAIN*
5. What clothing material should you avoid in wet weather? *COTTON*
6. What are the general body necessities of survival besides air and shelter? (name four)
- water*
warmth
energy
the ability to think
7. The international distress signal for wilderness use is:
- SOS
 - ☒ three fires, whistles sounds or three of anything
 - a large fire
 - none of these
8. Which of the following can cause circulatory upset?
- hypoxia
 - ☒ hypothermia
 - hypohydration
 - hyperthermia
 - fatigue
 - exhaustion
 - none of the above
 - ☒ all of the above
9. Assuming that water is scarce, which would require the least amount of body fluids for assimilation?
- protein
 - fat
 - ☒ carbohydrate

10. What is the initial sign of hypothermia?
- a. stumbling
 - b. sweating
 - ☒ c. shivering
 - d. impaired thought processes
11. Other than evaporation, which way can the body lose heat to the environment? (Indicate all that apply)
- ☒ a. respiration - *comb of above*
 - ☒ b. conduction
 - ☒ c. radiation
 - ☒ d. convection
12. Which of the following are symptoms of hypohydration or dehydration? (Indicate all that apply)
- ☒ a. headache
 - ☒ b. fatigue
 - ☒ c. constipation
 - ☒ d. increased pulse rate
 - ☒ e. muscle cramps
13. Which is the most important in a survival situation?
- a. skills
 - b. clothing
 - ☒ c. attitude
 - d. equipment
 - e. food intake
14. The needle in a compass points to:
- a. true north
 - b. grid north
 - c. geographical north
 - ☒ d. none of the above
15. High altitude cirrus clouds forecast which of the following weather conditions?
- ☒ a. cold front
 - b. thunderstorms
 - c. high winds
 - d. warm front
16. Body ventilation as well as body insulation ^{is?} is needed in very cold environments. True or false? ☒ True ☐ False
17. Fast swimming in cold water helps you to keep warm and prolong survival. True or False? ☒ True ☐ False
18. Your inner body responses to heat gain, heat loss, water loss and chemical upset can cause which of the following? (indicate all that apply)
- ☒ a. overall tiredness
 - ☒ b. loss of muscle use
 - ☒ c. a dumb brain
 - ☒ d. an attitude change

19. Survival situations can develop (indicate all that apply).

- ☒ a. on the desert
- ☒ b. in the arctic
- ☒ c. when you mismanage your body
- ☒ d. in an automobile

20. How long does it take your body to acclimatize to a temperature extreme environment?

- a. two days
- b. one day
- c. one month
- ☒ d. about 2 weeks

21. How long does the average survival emergency last?

- ☒ a. one hour
- b. one month
- c. three days
- d. seven days

22. In the desert, it is best to conserve and protect the water you have inside your body rather than expend it digging for needed water. True or false?

23. When you are exposed to water chill, the fetal position can be beneficial. True or False

SECTION 1B WILDERNESS TRAVEL AND FIRST AID

1. Complete the following table which describes the qualities of some common outdoor clothing materials. Use the following codes: 1, HIGH; 2, ACCEPTABLE; 3, LOW.

	dry warmth	wet warmth	wind protection	water retention	water wicking
cotton	2 3	3	3	1	3
down	1	3	2	1	3
wool	1	1	1	1	3
synthetics (polypropylene, pile)	1	1	2	3	1

2. Briefly talk about the layering concept in outdoor clothing for various kinds of weather. Include considerations of rain protection, wind protection, ventilation, "dressing cold" and overheating in winter.

3. Discuss the basic characteristics (lifetime, cost, weight, temperature characteristics and dangers) of carbon/zinc, alkaline, nickel-cadmium, and lithium batteries.

4. Name 4 ways by which heat can be lost from the body and give a cause (or causes) associated with each.

- a.
- b.
- c.
- d.

5. The early stages of hypothermia, once recognized, must be addressed as a true emergency. What are the early signs of hypothermia and what actions should be initiated immediately?

6. Why is hypothermia so deadly to someone traveling alone?

7. Suggest the components of a survival list for use here in the east containing no more than 4 items with a total cost of less than \$5.00.

8. Define rewarming shock.

9. What are the two primary ways that people die in cold white water?

10. Explain the STOP mnemonic?

thunderstorm.

12. List some symptoms of critical incident stress syndrome and burn-out that you may witness in yourself and others. How can these be best handled?

13. You are lucky enough to be assigned position as medic on a field team during a missing person search in mid-December. That night your team sees the subject lying on a ledge about 30 vertical feet above the ground. The victim is located about 50 feet below your location and can be reached by descending fourth class rock which has partly iced-up. Your FTL requests that you, as medic, downclimb to ascertain the victim's condition and treat him if possible. At this time, no technical gear is available. How will you handle this situation?

14. Your're hiking with a group of 10 in a backcountry area with a good wilderness rescue capability (e.g. Shenandoah National Park). In which of the following situations should you start an improvised evacuation, rather than simply sending for help and waiting for a rescue team with a stokes litter?

- a. signs of deepening stupor and coma following a blow to the head;
- b. a femur fracture without severe shock;
- c. a spine injury;
- d. a heart attack

15. The general rules for splinting include:

- a. splint it as it lies;
- b. for a fracture of a long bone: immobilize the joints above and below the fx site;
- c. for a dislocation or fracture around a joint: immobilize the long bone above and the long bone below the injury site.
- d. all of the above

16. The treatment of muscle strains or contusions includes: elevation, cold application every hour or so for 24 hours, and then warm applications every hour or so for a few days. True or False

17. Certain injuries tend to occur together, and the presence of one alerts the first responder to the possible presence of the other. Match up the conditions listed below with the injury or complication likely to be associated with each.

- | | | |
|-------------------------------------|-------|--|
| a. fractured navicular | _____ | wrist drop |
| b. fractured humerus | _____ | compression fracture of the lumbar spine |
| c. fractured pelvis | _____ | dislocated hip |
| d. posterior dislocation of the hip | _____ | shock |
| e. dislocated knee | _____ | fractured elbow |
| f. fractured patella | _____ | foot drop |
| g. fractured calcaneus | _____ | cold pulseless foot |

18. The presence of clues can sometimes be useful in ascertaining what caused a person to become unconscious.

MATCH the clue with respective problem.

- | | | |
|------------------|------------|---|
| a. head injury | <u>C</u> | insulin in the patient's refrigerator |
| | _____ | rigid neck |
| b. drug overdose | <u>a</u> | blood in the left ear canal |
| | <u>b,c</u> | needle tracks on the patients thighs |
| c. diabetes | _____ | high fever |
| | <u>b</u> | vomit containing pills |
| d. stroke | <u>d</u> | blood pressure medication in patient's pack |
| | _____ | bottle of dilantin in patient's pocket |
| e. seizures | _____ | left side of patient's face drooling |
| | <u>e</u> | patients tongue bleeding |
| f. meningitis | _____ | |

19. Define anaphylaxis and list some of its causes.

20. Describe briefly the prudent treatment for a venomous snake bite.

21. For each of the following, indicate whether it is most indicative of
A. heat cramps
B. heat exhaustion
C. Heat stroke

<u>C</u> delirium or coma	<u> </u> alert mental status
<u> </u> cool, clammy skin	<u> </u> very high oxygen consumption
<u> </u> hypovolemia is always present	<u> </u> normal or subnormal body temp.
<u> </u> painful spasms in extremities and/or abdomen	<u> </u> patient almost always someone in good physical condition
<u> </u> should receive oxygen	<u>C</u> 100% fatal if not treated
<u>A</u> due to loss of salt	
<u>C</u> hot, dry skin	

22. Sometimes knowledge of the forces involved in an accident (mechanism of injury) can help in determining the specific injury sustained. MATCH the following injuries with their likely respective mechanisms:

- | | | |
|---|-------|---|
| a. dislocated clavicle | _____ | victim was in a fight and struck opponent forcefully on the sternum |
| b. anterior shoulder dislocation | _____ | with his right fist |
| c. posterior shoulder dislocation | _____ | skiing injury, victim turned but ski didn't |
| d. fracture of the fifth metacarpal | _____ | football injury, victim struck on point of shoulder by helmet of a defensive lineman blocking |
| e. fracture of the distal phalanx, index finger | _____ | patient injured during a seizure |
| f. posterior hip dislocation | _____ | patient experienced pain after a 20 mile hike |
| g. hip fracture | _____ | elderly woman fell getting up from a chair |
| h. sprained knee | _____ | victim fell backward onto an outstretched hand |
| i. fractured calcaneus | _____ | victim slammed hand in car door |
| j. fractured metatarsal | _____ | auto accident, victim thrown forward, striking knee on dash |
| | _____ | victim fell from tip of 20' cliff, landed on feet |

23. For each of the following, indicate whether it is most characteristic of

- A. head injury, with increased intracranial pressure.
- B. cervical spine injury, with neurogenic shock
- C. abdominal injury with internal bleeding and hemorrhagic shock.

- _____ seizures
- _____ diaphragmatic breathing
- _____ extreme thirst
- _____ cheyne-stokes respirations
- _____ hemiplegia
- _____ quadriplegia
- _____ paraplegia
- _____ hypertension and bradycardia
- _____ priapism
- _____ patient lying with arms above his head
- _____ hypotension and tachycardia
- _____ unequal pupils
- _____ tendency to develop high body temperature
- _____ cold, clammy skin

24. The normal resting pulse for an adult is _____ to _____ bpm.

25. The normal resting respiratory rate for an adult is _____ to _____ respirations per minute.

6. Which of the following is the best description of a patient's state of consciousness?

- a. The patient is semistuporous
- b. the patient is somewhat alert but looks confused.
- c. The patient is semicomatose
- d. The patient knows his name but not his address or the date
- e. The patient is somewhat disoriented and looks confused.

6. For each of the following conditions, indicate whether it is more likely to be found in:

- A. a person who received an electric burn from a household current.
- B. a person who was struck by lightning.

- ☐ asystole
- ☐ temporary paralysis of the legs
- ☐ deep extensive muscle damage
- ☐ bullseye entrance wound
- ☐ confusion and amnesia
- ☐ tetanic muscle spasms
- ☐ ruptured ear drum
- ☐ widespread, feather-like burns on the skin surface.

7. For each of the following, indicate whether it is a sign of

- A. spine injury
- B. skull fracture
- C. Increasing intracranial pressure

- ☐ ecchymoses behind the ear
- ☐ one pupil widely dilated and unreactive
- ☐ paralysis of the intercostal muscles
- ☐ priapism
- ☐ hypotension
- ☐ hyperpnea
- ☐ drainage of clear fluid from the nose
- ☐ vomiting
- ☐ ecchymoses around the eyes
- ☐ paralysis of the right arm and right leg
- ☐ unconsciousness
- ☐ hypertension

8. If a person dies of a head injury, the cause of death is most likely to be:

- a. hemorrhagic shock
- b. neurogenic shock
- c. cerebral hypoxia
- d. cervical spine damage
- e. CSF leakage

29. For this reason, one of the most important aspects of treatment of the head injured patient is to
- start i.v. infusions ASAP
 - apply the MAST
 - ensure an open airway and administer O₂
 - immobilize the patient on a long backboard
 - put a pressure dressing over the ear or nose if there is clear fluid draining from them.
30. Emergency care for rewarming a frozen extremity is:
- rub the frost bitten or frozen area gently with your warm hands
 - rub snow on the frost bitten or frozen area
 - place the frozen part in a water bath with a temperature of 100-105° F.
 - place the frozen part in a water bath with a temperature of 107-115° F.
31. Should a frozen part be thawed if there is any danger of subsequent refreezing?
32. You are asked to examine a searcher who has been exposed to the cold for a long time. The skin on his finger tips is white, but the fingers are not painful. He may be suffering from
- frostbite
 - gangrene
 - frostnip
 - alcoholic intoxication
33. How could his problem best be treated?
- by immersion of the hand in water at 200° F.
 - by rubbing the fingers gingerly with ice
 - by holding the affected fingers in his axilla
34. You see another searcher who complains that his fingers are white and cold. The tissue is firm and has a waxy consistency. This person probably has
- superficial frostbite
 - gangrene
 - AIDS
 - frostnip
35. Yet another patient has hands cold and white. The fingers are frozen to the touch: they are hard, cold, pale and numb. This individual may have
- superficial frostbite
 - deep frostbite
 - frostnip
 - AIDS
36. The usual cause of death from systemic hypothermia is
- respiratory arrest
 - ventricular fibrillation
 - gangrene
 - brain damage
37. For this reason how should you treat any hypothermia victim?


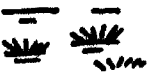

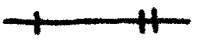

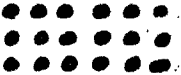
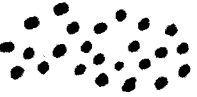







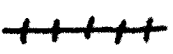
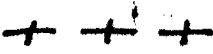
38. You have been asked to assemble the ASRC team to respond to the nuclear saster site in Russia to perform bone marrow transplants. You would
- a. grab a copy of this exam and leave immediately
 - b. grab a copy of this exam and phone in instructions to Kiev
 - c. grab a copy of this exam and send it in lieu of personnel
 - d. grab a copy of this exam and send it along with its author to the designated drop area.

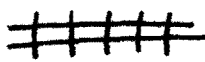











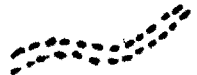



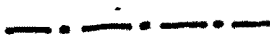
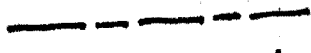
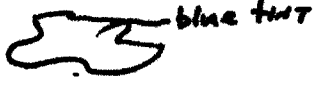


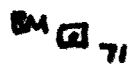
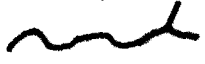

SECTION 2

NAVIGATION

USGS Topographical Maps: symbols for conventional unit maps. Match each symbol with its corresponding definition. (no colors used: same as aerographic copies).

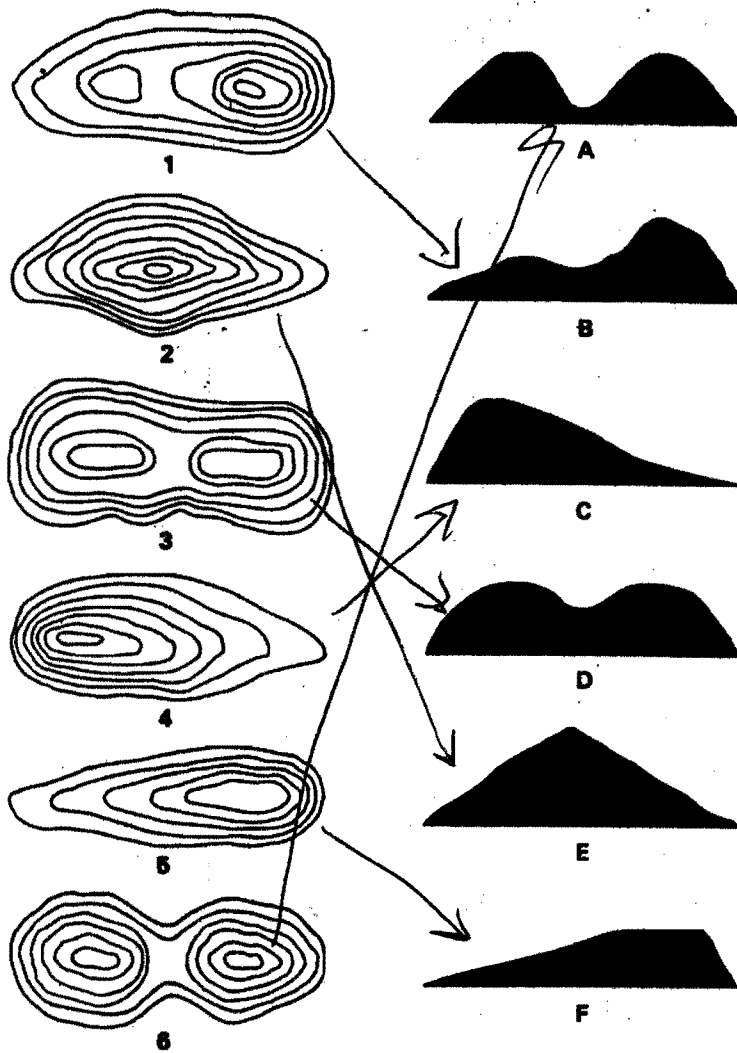
depression	u. scrub
power transmission line: pole tower	v. small barn/shed
secondary highway	w. trail
standard gauge single-track railroad	x. large falls, rapids
benchmark	y. small cemetery
abandoned rail line	z. telephone/telegraph line
primary highway	aa. vineyard
small falls or rapids	bb. unimproved dirt road
picnic area	cc. landing strip
large barn/shed	dd. church
cut	ee. spring
park boundary	ff. water tank
fill	gg. mine or cave entrance
disappearing stream	hh. airport
multiple track railroad	ii. light duty road
county boundary	jj. orchard
marsh or swamp	kk. school
mine dump	ll. quarry or open pit mine
intermittent stream	mm. footbridge
lake	nn. house or dwelling

- ee 1 
 Q 2 
 S 3 
 P 4 
 L 5 
 J 6 
 M 7 
 AG 8 
 LL 9 
 F 10 
 A 11 
 K 12 
 M 13 
 L 14 
 d 15 
 V 16 

- O 17 
 L 18 
 Y 19 
 CC 20 
 hh 21 
 K 22 
 M 23 
 V 24 
 L 25 
 A 26 
 L 27 
 W 28 
 L 29 
 F 30 
 L 31 
 C 32 
 L 33 
 L 34 
 t 35 
 F 36 
 M 37 
 L 38 
 A 39 
 X 40 

II.

Match the hills and contours



1 → B
 2 → E
 3 → D
 4 → C
 5 → F
 6 → A

II. On USGS maps, what colors are used to designate:

- a. man made feature? *black*
- b. hydrographic (water) features *blue*
- c. vegetation features? *green*
- d. elevation (hypsographic) features? *brown*

V. For enclosed sample map 1 supply the following information:

- a. quad name *Longs Peak, CO*
- b. magnetic declination in center of quad as of 1961 *14° E*
- c. name of the quad directly south of this one *Allens Park*
- d. roughly, how far is it from Allens Park to Longs Peak ranger station *7.8 mi*
- e. give the approximate (degrees, minutes, seconds) latitude and longitude of the Longs Peak ranger station. *105° 33' 30", 40° 16' 15"*
- f. give the approximate UTM (MGRS) coordinates of Long's Peak ranger station *Approx 527, 578, Longs Peak (16)*
- g. If you hiked from Long's Peak ranger station to Shelter house above Columbine Falls, how many feet higher would you be than the ranger station?
+ 2,400 ft

e)
$$\frac{5.7 \text{ in}}{12' 30''} = \frac{3.1 \text{ in}}{x' ''}$$

$$11,800 - 9400$$

$$2,400$$

I. Supply the missing information:

	True Bearing	Magnetic Declination	Magnetic Bearing
1.	76°	<u>0°</u>	76°
2.	34°	20° W	<u>54°</u>
3.	212°	10° E	<u>222° 202°</u>
1.	<u>106°</u>	10° W	116°
2.	<u>230° 30°</u>	20° E	330°

II. Is the declination east or west in Virginia and Maryland? W

VII. You are in the field and radio back to have a bearing to a specific landmark to 105° magnetic. What will base have to do to transpose this to his USGS map if the declination for your area is 9° W? Add 9° to get 114°

VIII. Using enclosed map 2, calculate the true bearing from the given attack point to a given target

- from road T in Glenburnie to top of Record Hill 358°
- from Record Hill to crossroad south of BM.,. 96°
- from crossroad south of BM.,. to Camp Adirondack 250°
- from Camp Adirondack to Log Chapel 80°
- from Log Chapel to Meadow Knoll Cemetery 105°

IX. For the above examples, what magnetic bearing would you set on your compass if you needed to travel to the above points

- 12°
- 110°
- 264
- 94°
- 119°

What is the approximate crow-flight distances (in feet) between the following points (map 2)..

- a. from Log Chapel to Meadow Knoll Cemetery 1.4 mi
- b. from Meadow Knoll Cemetery to top of Hutton Hill 0.6 mi
- c. from top of Hutton Hill to Glenburnie 4.2 mi

I. Define briefly the following orienteering terms:

- a. aiming off *Purposely going to one side or another of the target, so you'll know what direction to look in*
- b. "collecting" feature *a place or path of least natural resistance; good place to find people!*
- c. attack points *a starting pt for a bearing to target*
- d. catching features *a identified place that will indicate you have overshot, or to prevent you from overshooting*

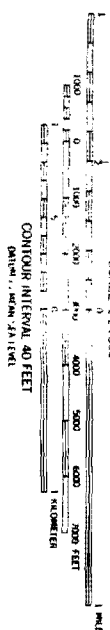
II. In reference to map 2, you are walking the telephone line that runs approximately north-south in the middle of the map. To determine where you are, you take a bearing on Record Hill and obtain a value of 294° . Indicate where you are on map 2 with your initials

$$294 - 14 = 280 \text{ to } \Rightarrow$$
$$\Rightarrow \frac{180}{360} + 280 = 100 \text{ ft}$$

III. Again in reference to map 2, you (team alpha) sight a downed aircraft. You contact team bravo by radio and find that they also can see it. To determine its exact location, both your team and team bravo take bearings on the aircraft. Your position is the summit of Huckleberry Hill at the A in Putnam, and the bearing you obtain is 246° true. Team bravo is located on the summit of Anthony's Nose and their bearing is 108° true. Mark the position of the downed aircraft with an X.

XIV. Using the ASRC coordinate system, specify the location of the following on the enclosed gridded map.

- a. summit of Sugar Loaf Mountain H 170/135
- b. the cemetery next to Bell's Chapel H 062/063
- c. the summit of Hill 1020 H 225/395
- d. the h of Furnace Branch H 050/084
- e. the P of Park Mills H 040/555



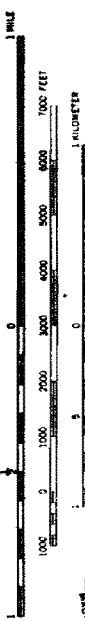
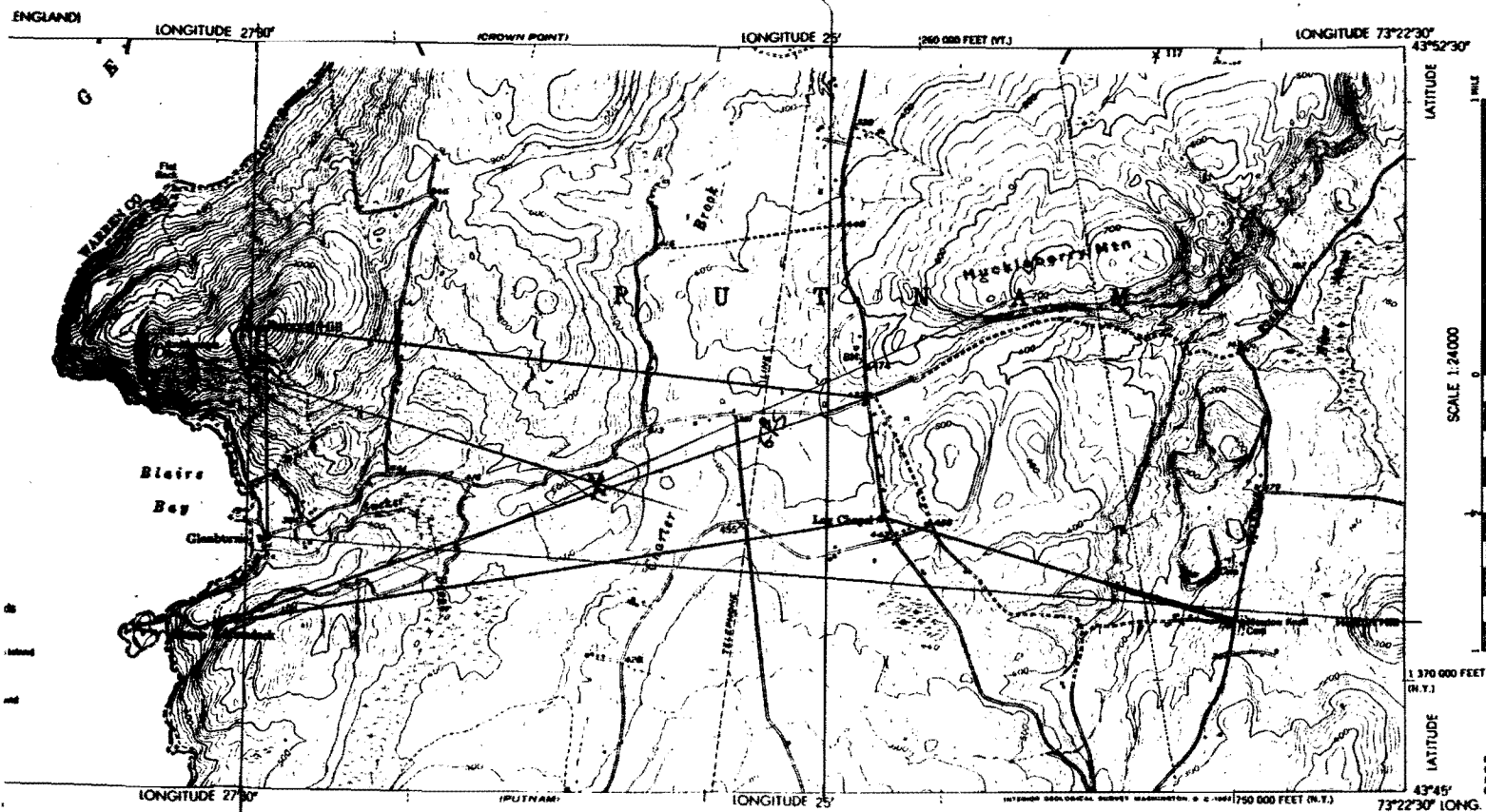
THIS MAP COMPLETES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D. C. 20242
Additional copies of this map are available on request

COLONIA

ROAD CLAS. OF M.A. H.T.

Medium-duty

LOWES PEAK CULO
MOUNTAIN SWEEP



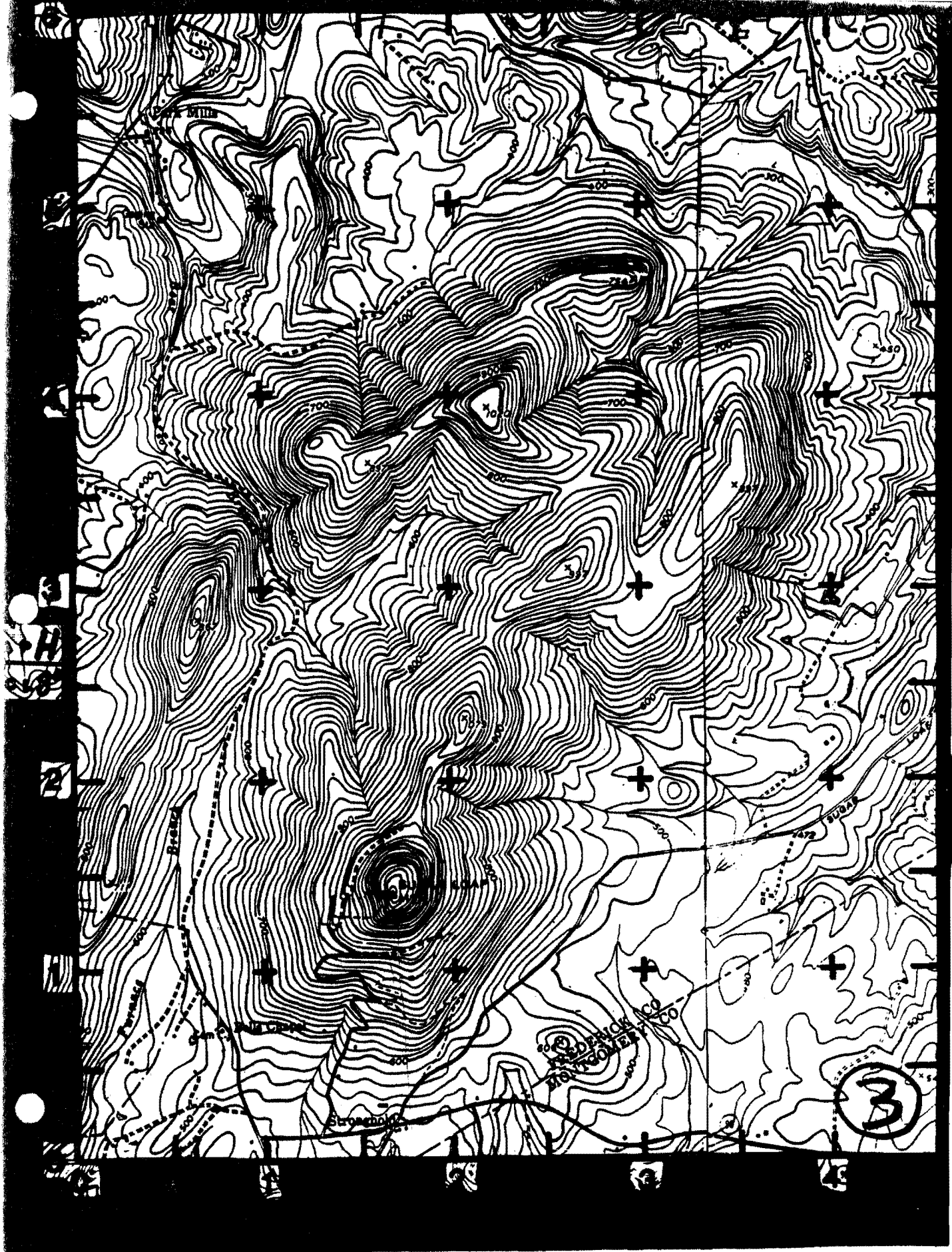
CONTOUR INTERVAL 20 FEET
 DATUM IS MEAN SEA LEVEL
 DEPTH CURVES IN FEET - DATUM IS MEAN LOW WATER 92.5 FEET

From the best. Be expert with Map and Compass. By Ben K. Kistner
 Published by Charles Scribner's Sons, New York
 Printed at the request of U.S. Geological Survey for use as training map.
 PRINTED IN U.S.A.

APPROXIMATE MEAN
 DECLINATION 14°

NOTE: MAGNETIC NORTH LINE
 USUALLY ARE NOT PRINTED ALONG
 FACE OF MAPS BUT SHOULD
 BE DRAWN IN BY MAP OWNER
 (See page 115)

2



SECTION 3 : SEARCH

1. Differentiate between search and rescue: Search is trying to find someone/thing
Rescue is what you do to it when it's found.
2. Differentiate between passive and active search methods: Passive techniques don't require large amt of resources + coordination, as opposed to active ones which often do.
3. List three techniques that could be used in passive search strategy.
- camp ins
 - attraction
 - observation
4. Define containment and how it may be achieved (5 ways) Containment keeps the area from growing;
- road perils
 - sting lines
 - natural features
 - helo / fixed wing
 - track traps
5. Define binary search theory or strategy. It suggests that you can determine where the subject is by ruling out areas where he isn't. Tactic: sign out box patterns ground clues.
6. Define hasty search. One whose criterion is speed. Uses little manpower, hits high POA, gives recon of area.
7. What is a "bastard search"? When the subject is outside the search area.
8. List at least 6 items of information a search team should have before it goes into the field.
- | | |
|--------------------------|---------------------|
| name of subject | |
| track info | personality profile |
| loc. of PLS | experience |
| dir of travel (if known) | Medical info. |
| clothing | |
| intentions | |
9. Why do we search for clues instead of subjects? More clues than subjects
Detection theory of Tx + Rx
10. Why is search an emergency? B/c something must be done now, and you don't get enough to rule out an emergency (life pass. at risk)

Give three examples of clue finders:

- a. Sign cutoffs
- b. ELT locators
- c. investigators.

2. Give three examples of subject finders:

- a. Pass
- b. help
- c. unturned gun tears

3. List three methods that could be used for attraction:

- a. Fire/light
- b. Sound -- horns, motors.
- c. Food; actually just calling person's name.

4. Define and outline the five phases of a lost person search as set forth in the ASRC Search and Rescue Operations Plan.

- 0 - "always ready" 3 - sweep search
1 - alert/initialize 4 - saturation search
2 - locate 5 - describe

5. What are the four primary considerations during any SAR operation?

Effectiveness
Efficiency
Safety for all
WORKING FOR THE SUBJECT

6. List and briefly define the core elements of Search and Rescue.

To try and save lives by working towards finding a person in need of help, or saving a life through technical means. It means to act professionally, w/ positive urgency, towards that soul, always keeping in mind who you're really working for (or should be!)

7. Define briefly and differentiate between Type I, Type II and Type III search tactics.

Type I - criteria is speed - locators, investigation, confinement

Type II - Criteria is efficiency - trained sweepers, dog trackers, etc.

Type III - Criteria is thoroughness (effectiveness) - saturation searching, keeping up PoD.

8. What would be five primary considerations regarding a given SAR situation that could be used to determine its urgency?

- a. Weather
- b. Time duration of incident in progress
- c. Medical - health
- d. Age, experience
- e. Condition of your resources / other incidents in progress.

9. A crucial tenet of modern search theory is "Grid Search as a Last resort". Justify briefly why this is correct

Grid searching is labor intensive. It is very effective, but not too efficient. IE, you'll probably find him -- dead.

20. Define status 1, status 2, status 3 as used in ASRC operations.

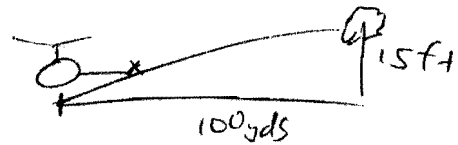
- 1 - Alive + well NO EVAC NECESSARY
- 2 - Alive, needs help MORE MEDICAL / EVAC INFO TO FOLLOW
- 3 - Assumed to be dead WILL PROTECT SCENE, DON'T GET HURT GETTING HERE

21. Discuss briefly how the following concepts relate to your actions in SAR operations.

- a. abandonment - If you find a subject and begin providing care, you must not give up or leave.
- b. implied consent - If a pt. is unconscious, ~~you may perform emergency care.~~ you may perform emergency care. ? (or a minor in MD?)
- c. confidentiality - Don't tell the world private info on the subject's mental state, etc. Also, be discreet re: medical condition upon finding him.
- d. entry, during missions, upon private property labeled "no trespassing". check w/ base, get permission from RA, SCO First.

22. In one short paragraph, summarize briefly some essential concerns about helicopter operations; specifically consider questions to be answered before helicopter is called in, landing site preparation and specifications, personnel safety considerations in or near the LZ.

- 1) Can the work be done w/o calling in a helo? If so, then do it!
Is life at stake? Do I need speed?
- 2) need flat area (± 40), firm ground (heel kick $\neq 1"$) low vegetation ($< 6"$)
No nearby wires or poles 200x100 yds \Rightarrow 100x60 yds minimum
Call in location + confirm commo freq. Give wind dir.
- 3) keep personnel away from helo until blades stopped, or invited by crew chief. Stay low. Approach from front KEEP EYE CONTACT W/ CREW CHIEF! DON'T
Approach from uphill side. IF IN DOUBT, FREEZE!

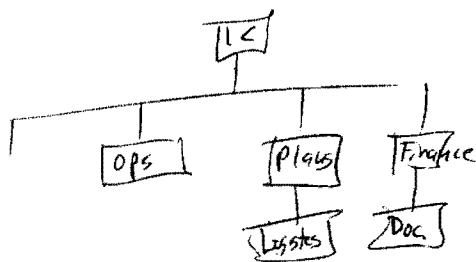


23. List five priority considerations for evacuation planning.

- a. Staging areas
- b. Medical providers available
- c. Rescue / evac vehicle
- d. Where to set evacuating from
- e. Replacement / denob of searchers + rescuers during prolonged ops.

4. Describe in fifty words or less the major reason(s) for use of the Ident Command System and what its chief components are?

(Common language, work by (x) not by title, Modular adaptability, good span of control.



5. You have been backpacking with a friend in MNF and find yourself in a search first responder situation. Specifically, at your trailhead, a mother and father are frantic because their 10 and 12 year-old sons somehow disappeared on the trail. At this point they have done nothing. What would you do? (please be reasonably brief!)

Calm Down. Each of you take a parent & briefly interview. Then send one to contact ranger. The other should stay put. You & your friend ~~hurry~~ ^{hurry} along path(s) taken, cutting for sign & calling ^{boys'} names. You could send both parents away to get help, if conditions warrant it. Also have the parent who remains take you to the PLS (I request score) ~~protect~~ ^{PROTECT} PLS.