

## Southeast Regional Day 2

### Written Test

1. When exploring in heavy smoke it is recommended that the team?
  - A. Keep in contact with the side to aid their progress
  - B. Use a linkline to hook all team members together
  - C. Follow along the rail to aid their progress
  
2. Gas readings should be taken?
  - A. At all intersections
  - B. At any dead end or face areas
  - C. At the furthest point of travel in any entry or heading
  
3. Dinner buckets encountered during exploration are important because?
  - A. They contain food and or water
  - B. They may contain notes that would indicate the whereabouts of survivors
  - C. They indicate where miners ate lunch
  
4. Pogo sticks are devices that are used?
  - A. To test the roof and rib or back
  - B. To measure air velocity
  - C. As supports on which brattice cloth can be hung

5. Mine rescue teams alter existing ventilation?
  - A. Only when directed to do so by the Command Center
  - B. When the team captain decides to do so
  - C. When teams encounter high concentrations of methane
  
6. During mine rescue team exploration the main fan?
  - A. Should be kept running and should be continually monitored
  - B. Shut off until needed
  - C. Turned on when mine gases are encountered by rescue teams
  
7. Accumulations of hydrogen in the mine atmosphere are dangerous because hydrogen?
  - A. Is highly toxic
  - B. Is highly soluble
  - C. Is highly explosive
  
8. Characteristics of hydrogen sulfide include?
  - A. It is explosive
  - B. It is highly toxic
  - C. Can be liberated from pools of stagnant water
  
9. Which of the following is not true of sulfur dioxide?
  - A. Explosive
  - B. Highly toxic
  - C. Highly soluble in water

10. The most likely source of ethane, propane, or butane in a mine is?
- A. Diesel equipment
  - B. Battery charging station
  - C. Leakage from adjacent gas or oil wells
11. Acetylene would normally be found in a mine atmosphere where?
- A. Diesel equipment is used
  - B. Methane has burned or exploded in air with a lowered oxygen content
  - C. Battery charging stations are located
12. The amount of coal dust suspended in the mine atmosphere is most important?
- A. Because it can alter the explosive range of methane
  - B. Because it can affect the specific gravity of oxygen
  - C. Because coal dust lowers the oxygen content in the mine atmosphere
13. Under what conditions would a team use a smoke tube to determine air velocities?
- A. When an anemometer is not available
  - B. When determining the direction and velocity of slow-moving air below 120 feet per minute
  - C. When you cannot determine the area of the entry
14. The traverse method is used when?
- A. Taking a reading with a smoke tube
  - B. Taking a reading with an anemometer
  - C. Erecting a temporary stopping

15. How would a team build a temporary stopping in a crosscut that has equipment in it?

- A. Drape a line curtain over the equipment because the line curtain is longer
- B. Build a temporary stopping on both sides of the equipment
- C. The brattice should be cut to fit around and over the equipment and the seal secured with loose material from the floor shoveled on the excess brattice along the floor and on the equipment

## TN Written tests day 2 answer

1. all answers are correct

2. all answers are correct

3. B

4. C

5. A

6. A

7. C

8. all answers are correct

9. A

10. c

11. B

12. A

13. B

14. B

15. C

1., 2., 8., these three questions any answer that is circled would be correct