## Southwest Wyoming June 8-10, 2010 Field Written Test

	Name:	Team:	
1.	A medium-velocity (or "re to 2,000 feet per minute.	egular") anemometer is used for measuring velocities	from 20
	<ul><li>a. True</li><li>b. False</li></ul>		
2.	Mines are required to keep months) per year.	exposure to radiation below WLM (working leve	1
	a. 2		
	b. 3		
	c. 4		
	d. 5		
3.	As little as% carbon	n monoxide can cause death in three hours.	
	a. 0.005		
	b. 5.000		
	c005		
	d05		
4.	Hydrogen sulfide is found	in high places in the mine because it is a relatively	
	heavy gas?		
	a. True		
	b. False		
5.	The explosive range for car	rbon monoxide, in normal air, is 12.5% to 74.5%	
	a. True		
	b. False		
6.	Rock-strata gas, commonly	y called rock gas is assumed to be largely nitrogen and	
	a. carbon monoxide		
	b. hydrogen		
	c. hydrogen sulfide		
	d. none of the above		

7.	Afterdamp is toxic but not oxygen-deficient.		
	<ul><li>a. True</li><li>b. False</li></ul>		
8.	Methane is most explosive in the 9.5% to 11% range		
	<ul><li>a. True</li><li>b. False</li></ul>		
9.	of Sufur Dioxide is dangerous to life		
	<ul> <li>a. 0.04% to 0.05%</li> <li>b. 1 ppm to 10 ppm</li> <li>c. 2% to 5.5%</li> <li>d. 4 ppm to 6 ppm</li> </ul>		
10.	An increase in temperature and pressure will cause a gas to expand		
	<ul><li>a. True</li><li>b. False</li></ul>		
11.	Radon is mostly found in gold, silver, or copper mines		
12.	<ul><li>a. True</li><li>b. False</li><li>is the reventilation of the entire sealed area at once.</li></ul>		
	<ul><li>a. building bulkheads</li><li>b. direct ventilation</li><li>c. progressive ventilation</li><li>d. not of the above</li></ul>		
13.	Exhaust fans are used mostly in mines having little overburden.		
	<ul><li>a. True</li><li>b. False</li></ul>		
14.	Natural ventilation is widely used in mines.		
	a. True b. False		

15.	There are important factors that help determine where to establish a fresh air base.
	<ul><li>a. two</li><li>b. three</li><li>c. four</li></ul>
	d. none of the above
16.	Dry chemical fire extinguishers put out fires by stopping thebetween the fuel and the oxygen
	<ul><li>a. heat reaction</li><li>b. flame reaction</li><li>c. chemical reaction</li><li>d. none of the above</li></ul>
17.	When operating a hand-held extinguisher, you should stay high and try to get within 6 to 8 feet of the fire before turning on the fire extinguisher
	a. True b. False
18.	Gas Readings should be taken:
	<ul><li>a. at all intersections</li><li>b. on the other side of bulkheads or doors prior to traveling through</li><li>c. at the furthest point of travel in any passageway</li><li>d. all of the above</li></ul>
19.	When directly fighting a fire the team should always approach the fire from the intake side:
	a. True b. False
20.	Air locking into a seal should never be undertaken until the oxygen content of the air behind the seal has been reduced to at leastpercent
	<ul><li>a. 2</li><li>b. 2.5</li><li>c. 3</li></ul>
	d. 5.5
21.	The mine clerk should provide materials for additional telephone communications as needed.
	<ul><li>a. True</li><li>b. False</li></ul>

	<ul><li>a. provide suitable transportation for people and supplies, as needed</li><li>b. record the equipment issued and returned</li></ul>		
	<ul><li>c. give each person going underground a check number</li><li>d. all of the above</li></ul>		
23.	A 30-pund fire extinguisher will normally last 15 to 25 seconds		
	a. True b. False		
24.	One of the duties of the chief engineer is to prepare an inventory of existing equipment and supplies:		
	a. True b. False		
25.	In accordance with the freedom of information act, news reporters should not be restricted from wandering about the mine property:		
	a. True b. False		
26.	The human body is what percent fluid:		
	a. 75		
	b. 80		
	c. 85 d. 90		
27.	The speed or rate at which you will travel underground is usually determined by the:		
	a. command center		
	b. fresh air base		
	c. team captain d. size of the mine		
28.	provides the fresh air base and the command center with a visual record of what is happening underground:		
	a. a MINER approved linkline		
	b. briefing session		
	c. simultaneous mapping		
	d. the mine phone		

The mine supervisor should:

22.

- 29. A positive indicator that a fire exists in a mine is:
  - a. methane and carbon dioxide in the exhaust airway
  - b. carbon monoxide and/or smoke in the exhaust air way
  - c. lowered oxygen content in the exhaust
  - d. a disruption in normal ventilation
- 30. Before going into a mine to explore for, or to fight a fire, the team should:
  - a. ensure gas tests are being done at the exhaust
  - b. make sure the fan is guarded and monitored
  - c. make sure the main fan is running
  - d. all of the above