FIELD COMPETITION

	A	16 β
2	B	17 A
3	\mathcal{B}	18 B
4	\mathcal{B}_{-}	19 A
5	4	20 B
6	C	21 C
- 7	B	22 C
8	B	23 A
9	\subset	24 C
10	B	25 DE
//	A	24 A - NO CORRECT ANSWER (Little OR NO) CO
/2	B	27 B
13	C	28 A
14	D	29 A
15	B	30 B

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NO ANSWER TO #26

2014 Southwestern Regional Mine Rescue Contest Carlsbad, NM Written Test – Field Competition

Na	ame	Company
Te	eam Name	Contest Position No
Te	eam Member No	- :
Di	virections: Use answer sheet & fill in	completely.
1.	 a. Arrange for guards and state a b. Notify all persons on the noti c. Obtain gas samples from the d. None of the above 	fication plan of the emergency.
2.	 a. 2.12 - 9.35% b. 3.0 - 12.5% c. 2.5 - 9.35% d. None of the above 	rmal air is?
3.	 Reestablishing ventilation and bringing the main task of mine rescue teams in a. True b. False 	ng fresh air to an area damaged by fire or explosion is n a rescue operation.
4.		e able to measure concentrations of methane from 0.0 to 20% of volume, and carbon monoxide from 0.0 to 9,999
5.	Air locking operations should never to the seals has been reduced to at least a. 2.0% b05% c. 1% d. 5.0%	be undertaken until the oxygen content of the air behind%.
6.	Urethane foam should never be appli spontaneous combustion. a. ½ inch b. 2 inch c: 1 inch	ed greater than inch thick because of

7.	You can allow a rescued miner to walk out of the mine alone if the miner appears to be in good shape? a. True b. False
8.	Usually, after temporary seals are erected, a waiting period of about 48 hours is recommended before beginning construction on permanent seals? a. True b. False
9.	When constructing a temporary bulkhead from a crosscut, the bulkhead should be feet into the passageway? a. 10 to 12 b. 1 to 2 c. 4 to 6 d. None of the above.
10.	The smoke tube is used to determine the direction and velocity of air moving above 120 feet per minute. a. True b. False
11.	If you are exposed to high concentrations of CO, you may experience very few symptoms before losing consciousness. a. True b. False
(2).	Breathing air containing 5% Carbon Dioxide can increase respiration%. a. 500 b. 300 c. 150 d. None of the above.
13.	is found after methane explosions in air having low oxygen content? a. Butane b. Ethane c. Acetylene d. Argon
14.	During the debriefing session the will provide the information found during exploration? a. Team Captain b. Co-Captain c. Fresh Air Base d. Team

- 15. Heavier gases such as carbon dioxide and sulfur dioxide do not diffuse rapidly, so they're easier to disperse?
 - a. True
 - b. False
- 16. The degree to which a toxic gas will affect you depends on three factors: 1) how concentrated the gas is 2) how explosive the gas is and 3) how long you're exposed to the gas?
 - a. True
 - b. False
- 17. The formula used to find the quantity of air moving through a drift is:
 - a. Quantity (ft3) = Area (ft2) x Velocity (ft/min.)
 - b. Quantity (ft3) = Area (ft2) x Velocity (ft/sec.)
 - c. Quantity (ft2) = Area (ft2) x Velocity (ft/min.)
- 18. Oxides of nitrogen are highly toxic. Breathing even small amounts will cause irritable bowel syndrome.
 - a. True
 - b. False
- 19. A line brattice is brattice cloth or plastic that is hung to channel intake air into a working area that otherwise would not have adequate ventilation.
 - a. True
 - b. False
- 20. 3rd degree burns covering less than 10% of the body (not including hands, feet, or face) is considered low or third priority.
 - a. True
 - b. False
- 21. The team briefing is normally conducted:
 - a. Only at a mine rescue contest
 - b. At the fresh air base
 - c. Command Center
 - d. None of the above
- 22. Rock –Strata gases commonly called "rock gas" is assumed to contain what two types of gasses?
 - a. Hydrogen and Carbon Monoxide
 - b. Nitrogen and Sulfur Dioxide
 - c. Nitrogen and Carbon Dioxide
 - d. Hydrogen Sulfide and Hydrogen
- 23. Normally gasses do not stratify when the ventilation system in a mine is working properly.
 - a. True
 - b. False

	b. Stope
	c. Crosscut
	d. None of the above
	nain cause of oxygen deficiency in a mine is:
	a. Insufficient ventilation
	b. Displacement by other gases
	c. A fire or explosion
	d. Consumption by workers e. All of the above.
	c. An of the above.
prev reki	three preconditions for opening a sealed fire area are: 1) O2 content is low enough to vent an explosion 2) there is no CO and 3) the sealed area has cooled so the fire will not ndle when re-ventilated?
	a. True b. False
	o. raise
	advantage of progressive ventilation is it is a fast process. a. True b. False
	tilation controls affect the amount of air that travel and the direction of flow. a. True
	b. False
29. A fr expl	esh air base is usually established at a point where conditions no longer permit barefaced loration.
/1	a. True
	b. False
fede	command center for rescue and recovery operations is generally only consisting of and state officials?
	a. True b. False
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24. In a multi-level mine, a tunnel driven perpendicular to the main vein system of the mine is

considered a?
a. Drift