

Choose the correct answer to each of the following questions:

1. What gas can be detected by the odor or taste of blasting powder fumes?
 - a. Nitrogen dioxide
 - b. Carbon dioxide
 - c. Hydrogen sulfide
2. What is the explosive range of carbon monoxide?
 - a. 4.3% to 45.5%
 - b. 12.5% to 74.2%
 - c. 5% to 15% in at least 12.1 % oxygen
3. A gas that is normally found near the roof or in high places in the mine is said to have a low:
 - a. Specific gravity
 - b. Level of toxicity
 - c. Level of solubility
4. What is the explosive range of a gas?
 - a. The explosive range of a gas is the concentrations within which a non-flammable gas can explode when there is a specific amount of oxygen present.
 - b. The explosive range of a gas is the amount of gas that can cause damage to the central nervous system.
 - c. The explosive range of a gas is the concentrations within which a flammable gas can explode when there is a specific amount of oxygen present.
5. What gases below are highly soluble in water?
 - a. Hydrogen sulfide and hydrogen
 - b. Hydrogen sulfide and sulfur dioxide
 - c. Nitrogen and sulfur dioxide
6. What is the purpose or function of a stopping/bulkead?
 - a. Used to direct air through the mine by keeping intake air in one entry separate from return air in the next entry so that the intake air will not short-circuit into the return before it reaches the working faces.
 - b. Used to channel intake air from the last open crosscut to the face.
 - c. Used to direct air through the command center by keeping intake air in one entry separate from return air in the next entry so that the intake air will not short-circuit into the return before it reaches the working faces
7. A high-velocity anemometer is used to determine air velocities from
 - a. 120 to 2,000 feet per minute
 - b. 2,000 to 5,000 feet per minute
 - c. 2,000 to 10,000 feet per minute
8. Under what conditions would a team use a smoke tube to determine air velocities?
 - a. The smoke tube is used to determine the direction and velocity of slow-moving air, below 120 feet per minute
 - b. The smoke tube is used to determine the direction and velocity of fast-moving air, above 120 feet per minute
 - c. The smoke tube is used to determine the direction and velocity of slow-moving air, below 250 feet per minute

9. Debriefings are held to:
 - a. Inform news reporters of developments
 - b. Inform family members of developments
 - c. Review the teams findings after they have returned from underground
10. Prior to a team passing through a door or stopping/bulkead behind which conditions are not definitely known, they should ?
 - a. Erect an airlock to prevent the mixing of atmospheres
 - b. Ask FAB to send in the back up team
 - c. Open the door and wait 10 minutes to see if the gases diffuse
11. Class B fires are fires that?
 - a. Involve ordinary combustibile material such as wood, plastics, paper and cloth.
 - b. Involve flammable or combustibile liquids such as gasoline, diesel fuel, kerosene, and grease
 - c. Involve combustibile metals
12. Why are burning conveyor belts hazardous to firefighters?
 - a. Because the conveyor belt emits extremely toxic gases as it is decomposed by the fire.
 - b. Many of the gases are more dangerous than carbon dioxide.
 - c. The power might need to be locked and tagged
13. A monoammonium phosphate extinguisher is effective in fighting what class of fires?
 - a. Class K
 - b. Class D
 - c. Class A, B, C
14. What procedure below would a rescue team use to enter a refuge chamber or barricade behind which miners are located?
 - a. Try to establish communication and if possible advance fresh air to the area.
 - b. If it is not possible to advance fresh air to the area then note it on the map
 - c. When opening a barricade you always have to erect an air lock
15. What is one precondition for opening a sealed fire area?
 - a. There should be no carbon monoxide indicating the fire is out
 - b. There should be no carbon dioxide indicating the fire is out
 - c. The oxygen should be high enough to that an explosion is possible