

## General Review

### Mine Ventilation

Choose the correct answer to each of the following questions.

1. A smoke tube is a device used to:
  - a. Determine oxygen content of the mine atmosphere.
  - b. Determine direction and velocity of airflow.
  - c. Detect carbon monoxide.
  - d. Detect leaks in temporary stoppings.
2. 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.
  - d. None of the above.
3. Mine rescue teams should 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 they encounter high concentrations of methane.
  - d. When they encounter smoke.
4. Mine rescue teams erecting temporary stoppings/[Bulkheads](#) in atmosphere with elevated methane readings should:
  - a. Use only inflatable seals.
  - b. Leave a corner of the stopping [Bulkheads](#) open for the methane to exit.
  - c. Use non-sparking tools, nails, and spads.
  - d. Mine rescue teams should never enter such atmosphere.
5. During mine rescue team explorations, the main fan:
  - a. Should be kept running.
  - b. Should be continually monitored.
  - c. Both of the above.
  - d. None of the above.
6. Air locks are used by mine rescue teams:
  - a. To establish a Fresh Air Base.
  - b. When opening a door or knocking out a stopping/[Bulkheads](#) behind which conditions are not definitely known.
  - c. Before opening a barricade in bad air behind which trapped miners may be located.
  - d. All of the above.

7. Two instruments commonly used to measure velocity of airflow in a mine are:
  - a. Smoke tube.
  - b. Smoke tube and CO detector.
  - c. Anemometer.
  - d. Smoke tube and anemometer.
8. Temporary stoppings/[Bulkheads](#) built in a passageway should be placed at least 4 to 6 feet into the passageway in order that:
  - a. Sufficient space is available to construct a permanent stopping/[Bulkheads](#)
  - b. It will be protected from further explosions.
  - c. It will not be affected by fire if a fire should spread to that crosscut.
  - d. All of the above.
9. “Pogo sticks” are devices that are used:
  - a. To test the roof and rib.
  - b. To measure air velocity.
  - c. To determine the direction of airflow.
  - d. As supports on which brattice cloth can be hung.
10. Match the term with its correct symbol:

**Note:** These are not standard symbols. If your mine uses different symbols, be sure to substitute your own here.

- |   |    |
|---|----|
| (1) Temporary stopping/ <a href="#">Bulkheads</a> | a. |
| (2) Line brattice                                 | b. |
| (3) Overcast                                      | c. |
| (4) Main fan                                      | d. |
| (5) Man door                                      | e. |
| (6) Permanent stopping <a href="#">Bulkheads</a>  | f. |
| (7) Regulator                                     | g. |
| (8) Mine Door                                     | h. |
| (9) Box Check                                     | i. |
| (10) Check Curtain                                | j. |
|   | k. |

**GENERAL REVIEW ANSWER SHEET (pages3-59)**

1. b

2. b

3. a

4. c

5. c

6. d

7. d

8. a

9. d

10. Answers:

(1) g

(2) k

(3) a

(4) c

(5) j

(6) i

(7) f

(8) h

(9) d

(10) e