

Written Examination Day 2 Harlan Safety Days

Team Name _____ Contestant Name _____

1. The IDLH of _____ is 20 ppm. (NIOSH Chemical Hazards, p. 228)
A. ___ Nitrogen Dioxide*
B. ___ Carbon Dioxide
C. ___ Sulfur Dioxide
2. The IDLH of Hydrogen sulfide and _____ is 100 ppm. (NIOSH Chemical Hazards, pp. 170 & 288)
A. ___ Nitrogen Dioxide
B. ___ Carbon Dioxide
C. ___ Sulfur Dioxide*
3. _____ is the product of oxidation including the decay of timbers. (MSHA 3028, pp. 2-14)
A. ___ Nitrogen Dioxide
B. ___ Carbon Dioxide*
C. ___ Sulfur Dioxide
4. _____ is non-explosive. (MSHA 3028, pp. 2-14)
A. ___ Nitrogen Dioxide
B. ___ Carbon Dioxide*
C. ___ Sulfur Dioxide
5. _____ is produced by burning and by the detonation of explosives. (MSHA 2102, p. 37)
A. ___ Nitrogen Dioxide*
B. ___ Carbon Dioxide
C. ___ Sulfur Dioxide

6. In some mines, _____ is liberated from the rock strata.
(MSHA 3028, pp. 7-6)
- A. ___ Nitrogen Dioxide
 - B. ___ Carbon Dioxide*
 - C. ___ Sulfur Dioxide
7. Afterdamp is a mixture of carbon monoxide, _____, methane, oxygen, nitrogen and hydrogen. (MSHA 3028, pp. 2-27)
- A. ___ Nitrogen Dioxide
 - B. ___ Carbon Dioxide*
 - C. ___ Sulfur Dioxide
8. Afterdamp is usually _____ after a mine fire or explosion.
(MSHA 3028, pp. 2-27)
- A. ___ Found*
 - B. ___ Formed
 - C. ___ Detected
9. Once ventilation has been re-established and fresh air advanced _____ crews can take over the rehabilitation and cleanup effort.
(MSHA 2107, p. 3)
- A. ___ Bareface
 - B. ___ Nonapparatus*
 - C. ___ Rescue
10. Mine rescue teams may find it necessary to use line _____ to sweep noxious or explosive gases from a face area. (MSHA 2103, p. 39)
- A. ___ Cloth
 - B. ___ Curtain
 - C. ___ Brattice*

Written Examination Day 2 Harlan Safety Days Answer Key

1. A Nitrogen Dioxide
2. C Sulfur Dioxide
3. B Carbon Dioxide
4. B Carbon Dioxide
5. A Nitrogen Dioxide
6. B Carbon Dioxide
7. B Carbon Dioxide
8. A Found
9. B Nonapparatus
10. C Brattice