Written Examination Day 2 Harlan Safety Days

Team Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Contestant Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The IDLH of \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_is 20 ppm. (NIOSH Chemical Hazards, p. 228)
2. \_\_\_ Nitrogen Dioxide\*
3. \_\_\_ Carbon Dioxide
4. \_\_\_ Sulfur Dioxide
5. The IDLH of Hydrogen sulfide and \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ is 100 ppm.

(NIOSH Chemical Hazards, pp. 170 & 288)

1. \_\_\_ Nitrogen Dioxide
2. \_\_\_ Carbon Dioxide
3. \_\_\_ Sulfur Dioxide\*
4. \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ is the product of oxidation including the decay of timbers. (MSHA 3028, pp. 2-14)
5. \_\_\_ Nitrogen Dioxide
6. \_\_\_ Carbon Dioxide\*
7. \_\_\_ Sulfur Dioxide
8. \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_is non-explosive. (MSHA 3028, pp. 2-14)
9. \_\_\_ Nitrogen Dioxide
10. \_\_\_ Carbon Dioxide\*
11. \_\_\_ Sulfur Dioxide
12. \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_is produced by burning and by the detonation of

explosives. (MSHA 2102, p. 37)

1. \_\_\_ Nitrogen Dioxide\*
2. \_\_\_ Carbon Dioxide
3. \_\_\_ Sulfur Dioxide
4. In some mines, \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_is liberated from the rock strata.

(MSHA 3028, pp. 7-6)

1. \_\_\_ Nitrogen Dioxide
2. \_\_\_ Carbon Dioxide\*
3. \_\_\_ Sulfur Dioxide
4. Afterdamp is a mixture of carbon monoxide, \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_, methane,

oxygen, nitrogen and hydrogen. (MSHA 3028, pp. 2-27)

1. \_\_\_ Nitrogen Dioxide
2. \_\_\_ Carbon Dioxide\*
3. \_\_\_ Sulfur Dioxide
4. Afterdamp is usually \_\_\_\_\_\_\_\_\_after a mine fire or explosion.

(MSHA 3028, pp. 2-27)

1. \_\_\_ Found\*
2. \_\_\_ Formed
3. \_\_\_ Detected
4. Once ventilation has been re-established and fresh air advanced \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ crews can take over the rehabilitation and cleanup effort. (MSHA 2107, p. 3)
5. \_\_\_ Bareface
6. \_\_\_ Nonapparatus\*
7. \_\_\_ Rescue
8. Mine rescue teams may find it necessary to use line \_\_\_\_\_\_\_\_\_\_to sweep noxious or explosive gases from a face area. (MSHA 2103, p. 39)
9. \_\_\_ Cloth
10. \_\_\_ Curtain
11. \_\_\_ 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