LOVELAND TEAM TECH 2023 QUESTIONS

Team name: Name:

1. The air we normally breathe is a mixture of gas. Clean dry air at sea level is made up of \_\_ percent nitrogen and \_\_\_ percent oxygen.
2. 79 to 21
3. 78 to 21
4. 78 to 19.5
5. What is the specific gravity of oxygen?
6. 1.0125
7. 1.1025
8. 1.1054
9. Where carbon dioxide is commonly found?
10. Near roof
11. Near floor
12. Waist level
13. Methane is flammable. Its explosive range is 5 to 15 percent when there is at least \_\_\_ percent oxygen.
14. 12.1
15. 10.1
16. 19.5
17. What is the specific gravity of Carbon Monoxide?
18. 1.5291
19. 0.9674
20. 0.9672
21. Increased \_\_\_\_\_\_\_levels are often present after explosives have been detonated.
22. Nitrogen
23. Hydrogen
24. Sulfur
25. Oxides of nitrogen are\_\_\_\_\_ \_\_\_\_\_.
26. Non Toxic
27. Highly Toxic
28. Skin irritants
29. What is the specific gravity of Hydrogen?
30. 1.1906
31. 0.0695
32. 2.2638
33. What is the explosive range of Hydrogen?
34. 4 to 75.2 %
35. 5 to 74.2%
36. 4 to 74.2%
37. Smoke is a result of \_\_\_\_\_\_.
38. Explosion
39. Fire
40. Combustion
41. \_\_\_\_\_\_\_\_ is a mixture of Carbon Monoxide and air which results from mine fires.
42. Whitedamp
43. Afterdamp
44. Blackdamp
45. Stinkdamp is a mixture of \_\_\_\_\_ \_\_\_ and air.
46. Nitrogen Dioxide
47. Sulfur Dioxide
48. Hydrogen sulfide
49. The traverse method is used when?
50. Taking a reading with a smoke tube
51. Taking a reading at a regulator
52. Taking a reading with an anemometer
53. Two instruments commonly used to measure velocity of air flow in a mine.
54. Smoke tube and Magnehelic
55. Smoke tube and Anemometer
56. Anemometer and Magnehelic
57. POGO sticks are devices that are used.
58. As supports on which brattice cloth can be hung
59. As an extension for reaching high places to take air readings
60. As roof control subsidence indicators