New Iberia Team trainer Test 2010

- 1. Module 4 of the Metal Non Metal revised 2008 edition of "A guide to Mine Rescue Training" is
 - a. Mine gases
 - b. Mine ventilation
 - c. Exploration
 - d. Mine Recovery
 - e. None of the above
- 2. Module 5 in the guide to mine rescue training discusses
 - a. Mine recovery
 - b. Rescue of survivors
 - c. Fires
 - d. Mine ventilation
 - e. None of the above
- 3. 30 CFR, part 49.1 discusses
 - a. Availability of mine rescue teams
 - b. Alternative mine rescue capabilities for small mines
 - c. Purpose and scope
 - d. Definitions
- 4. 30 CFR, part 49, subpart B is for Metal Non Metal teams
 - a. True
 - b. False
- 5. 30 CFR, 49.3 an operator can apply for small and remote status if there are fewer then _____ underground employees within two hours of ground travel time,
 - a. 25
 - b. 35
 - c. 26
 - d. 36
 - e. 15

- 6. 49.7 under physical requirements for mine rescue team members a team member must have a repeated blood pressure reading that does not exceed
 - a. 150 over 100
 - b. 160 over 120
 - c. 160 over 100
 - d. 150 over 90
 - e. None of the above
- 7. Mine rescue equipment repair records shall be kept for
 - a. 1 year
 - b. 2 year
 - c. No requirement
 - d. Until reviewed by an Authorized representative from MSHA
- 8. Which of the following is not true of sulfur dioxide?
 - a. It is explosive
 - b. It is highly toxic
 - c. It is highly soluble in water
 - d. It can occur during mine fires
- 9. An elevated concentration of carbon dioxide in mine air can be harmful because;
 - a. It is highly explosive
 - b. It increases the breathing rate
 - c. It is highly toxic in small concentrations
 - d. All of the above
- 10. Characteristics of hydrogen sulfide include:
 - a. Explosive
 - b. High toxic
 - c. Can be liberated from pools of stagnant water
 - d. All of the above
- 11. Gases that are neither toxic nor explosive:
 - a. Are not found in mine atmospheres
 - b. Are not dangerous
 - c. Can be dangerous because they can displace oxygen
 - d. Cannot be detected with today's detection instruments
- 12. Carbon dioxide (CO2) seeks high places
 - a. True
 - b. False

- 13. Nitrogen Dioxide (NO2) seeks high places

 a. True
 b. False

 14. Hydrogen (H2) seeks high places

 a. True
 b. False
- 15. Sulfur Dioxide (SO2) has a specific gravity of 2.2638, therefore should be tested for in low areas. It has a very low explosive range and is very toxic.
 - a. True
 - b. False
- 16. Infectious diseases range from such generally mild conditions as the common cold to life-threatening diseases such as tuberculosis. The four diseases of most concern to emergency medical responders are:
 - a. Human immunodeficiency virus, hepatitis, tuberculosis, meningitis.
 - b. AIDS, hepatitis, blood borne pathogen, influenza
 - c. Typhoid fever, viral encephalitis, bacterial meningitis, SARS
 - d. Hepatitis, tuberculosis, meningitis, Lyme disease
- 17. The appropriate rate of compressions during adult CPR is _____per minute.
 - a. 80 to 100
 - b. No faster then 80
 - c. About 100
 - d. No faster then 120
- 18. Pulmonary resuscitation is:
 - a. Any effort to restart normal heart rhythms.
 - b. Any effort to revive or restore normal breathing.
 - c. The use of mechanical devices to restart breathing.
 - d. The ability to restore normal heart rhythm and breathing.
- 19. 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 carbon monoxide
 - d. When they encounter smoke

 20. Burning materials that give off extremely toxic gases in addition to carbon monoxide: a. Timbers b. Hydraulic fluids c. Neoprene and other synthetic rubber compounds d. All of the above
 21. Barefaced exploration should be attempted only when: a. The team captain says it OK b. Everyone on the team says there up for it c. A back up mine rescue team with apparatus is immediately available d. There are no indications an apparatus is needed.
22. In the Code of federal regulations 49.2 "Availability of mine rescue teams" clearly outlines the requirements of a mine rescue team except teams operating under 49.3 or 49.4 a. True b. False
23. It is much easier to remove a concentration of sulfur dioxide by ventilation than it is to remove the same concentration of hydrogena. Trueb. False
 24. Which of the following is not a heavy hydrocarbon? a. Ethane b. Propane c. Butane d. Acetylene
25. Sulfur Dioxide gas in concentrations as low as is dangerous to life. a02 to .07 % b01 to .05 % c04 to .05 % d4 to .5 % e004 to .005 %

- 26. If you took a ventilation reading in a drift 14 feet wide and 16 feet high and record a true reading of 1200 fpm, what is the CFM?
 - a. 2400
 - b. 250,00
 - c. 268,000
 - d. 286,800
- 27. Taking a reading in a drift 10 feet wide and 10 feet high and a true reading of 1000 feet per minute the CFM would be.
 - a. 1000
 - b. 10,000
 - c. 100,000
 - d. None of the above
- 28. If a survivor is found in contaminated or questionable air and is fully conscious and ready to travel, the team should
 - a. Get them to a fresh air base as soon as possible
 - b. Let them continue to head for a fresh air base so the team can do more important work
 - c. Provide the person with breathing protection and send them toward fresh air.
 - d. None of the above
- 29. In body recovery, a muscular individual will begin putrefaction sooner then an obese person.
 - a. True
 - b. False
- 30. If a body is found the first thing a team member should do is check all of his/her pockets and look for stuff that will identify him/her.
 - a. True
 - b. False
- 31. The fact that Nitrogen Dioxide (NO2) is non toxic when encountered by a team they should map and mark it but move on and worry about more dangerous gases.
 - a. True
 - b. False

32. When measuring ventilation with a smoke tube one must convert FPS to
FPM. Therefore <u>23 seconds</u>
60 seconds=
a28 minute
b38 minute
c48 minute
d. none of the above
33. Medium velocity anemometer is used to determine air velocities fromtofpm. a. 100/1000

- b. 120/1200
- c. 120/2000
- d. 1000/3000
- 34. Team signals of one= stop, two signals= advance, three signals= retreat, four signals= distress are international signals all team members know and use.
 - a. True
 - b. False
- 35. The best way to prevent hydrogen pops during a fire fighting event is to
 - a. Build a fire regulator
 - b. Decrease air flow
 - c. Provide adequate air flow over the fire
 - d. None of the above