**2015 Southern Regional Mine Rescue Contest**

**New Iberia, LA**

**Team Trainer Written Test**

1. An example of a second priority condition is, second degree burns involving less than \_\_\_\_\_% of the body.
   1. 10
   2. 15 (Modules 6-6)
   3. 20
   4. None of the above
2. Victims can be categorized into three priority groups according to their condition or injuries.
   1. True
   2. False (Modules 6-5)
3. After survivors have been found in the mine, the next step is to get them to safety and fresh air as quickly as possible.
   1. True (Modules 6-5)
   2. False
4. The \_\_\_\_\_\_\_\_\_ will determine whether to advance fresh air or build an air lock.
   1. Team Captain
   2. FAB Attendant
   3. State officials
   4. None of the above (Modules 6-4)
5. When survivors are located, the location, time, gender, and date should be marked on the team’s map and marked on the side in the passageway where they were found.
   1. True
   2. False (Modules 6-4)
6. The training courses required by Part 49.8 shall be conducted by instructors who have been employed in an underground mine for a minimum of one year within the past 10 years.
   1. True
   2. False (30 CR Part 49.8 (d) )
7. Prior to serving on a mine rescue team each member shall complete, at a minimum, an initial \_\_\_\_\_\_\_\_ course of instruction?
   1. 5-hour
   2. 20-hour (30 CFR Part 49.8 (a) )
   3. 15-hour
   4. 10-hour
8. Defibrillation is the application of an electrical shock to a patient’s heart in an attempt to convert a non-lethal rhythm into a normal one.
   1. True
   2. False (Brady 9th Edition Chapter 10 pg. 188)
9. Methane can be seen, smelled or tasted if you are alert enough to notice it?
   1. True
   2. False (Modules pg. 2-22)
10. All field problems will be designed with at least two clear and systematic ventilation solutions?
    1. True
    2. False (2016 National M/NM Contest Rules pg. 30)
11. In most cases, a responsive patient does not have a gag reflex.
    1. True
    2. False (Brady 9th Edition Chapter 8 pg. 155)
12. Your team will make frequent tests for gases as it advances beyond the portal.
    1. True
    2. False (Modules pg. 2-22)
13. The conveyance command signals 2-1 followed by the command signal 3-2, indicate 500 Feet First level and Lower Conveyance.
    1. True
    2. False (2016 National M/NM Contest Rules pg. 23)
14. Entrances to all mine openings do not have to be examined under oxygen as long as the unit is readily available for use.
    1. True
    2. False (2016 National M/NM Contest Rules pg. 24)
15. In smoke, all team members must have hold of, or be fastened to, a lifeline.
    1. True (2016 National M/NM Contest Rules pg. 24)
    2. False
16. If during the working of the problem any team member is unable to continue, the \_\_\_\_\_\_\_ may be used as a substitute.
    1. Provided Victim
    2. MSHA Official
    3. (No.8 member)
    4. None of the above (2016 National M/NM Contest Rules pg. 10)
17. Once a post has been set to correct and support an unsafe roof condition, it can only be removed with the approval of the command center.
    1. True
    2. False (2016 National M/NM Contest Rules pg. 31)
18. At the command center the team will find a gas box (gas cylinder and tubing) containing an “unknown mixtures of gases.
    1. True
    2. False (2016 National M/NM Contest Rules pg. 36)
19. During the first aid competition the first aid team will be permitted to use first aid manuals for reference purposes during the problem solving.
    1. True
    2. False (2016 National M/NM Contest Rules pg. 94)
20. During the first aid competition team members are not allowed to leave the working area to obtain materials for the problem.
    1. True (2016 National M/NM Contest Rules pg. 94)
    2. False
21. According to the 2016 M/NM Mine Rescue Contest Rules, an Assistant is a person qualified to participate as a mine team member. Can replace any team member who cannot continue or who is removed from the problem.
    1. True
    2. False (2016 National M/NM Contest Rules pg. 108)
22. \_\_\_\_\_ bleeding occurs when vessels that return blood to the heart have been damaged.
    1. Arterial
    2. Capillary
    3. Venous (Brady 9th Edition Ch. 17 pg. 359)
    4. None of the above
23. The \_\_\_\_\_ cavity houses the brain and its specialized membranes.
    1. Thoracic
    2. Pelvic
    3. Cranial (Brady 9th Edition Ch.4 pg. 63)
    4. Abdominal
24. A small portion of the pancreas is located in the left upper quadrant.
    1. True
    2. False (Brady 9th Edition Ch. 4 pg. 66)
25. A person certified in the use and care of breathing apparatus shall inspect and test the apparatus at intervals not to exceed 30 days.
    1. True
    2. False (30 CFR Part 49.6b1)
26. Which one of the following is not classified as a hydrocarbon?
    1. Ethane
    2. Acetylene (Modules 2-23)
    3. Butane
    4. Propane
27. Factors that determine how quickly a gas will diffuse or disperse include?
    1. Pressure
    2. Temperature
    3. Specific gravity
    4. All of the above (Modules 2-6)
28. The team may have to use a mucking bucket or other improvised means to make their descent into the mine provided all five team members will fit?
    1. True (Modules 4-5)
    2. False
29. The specific gravity for Nitrogen Dioxide is:
    1. 1.8954
    2. 1.8459
    3. 1.5984
    4. 1.5894 (Modules 2-57)
30. In high concentrations, Carbon Dioxide increases breathing rate and can cause death.
    1. True (Modules 2-53)
    2. False