2013 Southern Mine Rescue Association
Mine Rescue Contest, May 7-9
MX6 Instrument Test

Name **Team**

1. If an instrument fails to operate properly following any functional “bump” test, full instrument calibration should be performed prior to use.
If conditions do not permit daily testing, bump tests may be done less frequently based on instrument use, exposure to gas, and environmental conditions.
The frequency of testing is best determined by company policy or local regulatory agencies.
T or F

2. The MX6 Instrument MUST be powered off prior to servicing or battery removal.
T or F

3. The MX6 can display up to 6 sensors.
T or F

4. The Oxygen sensor in the MX6 does not use a low level alarm.
T or F

5. The maximum display range for the Infrared Methane sensor in the MX6 instrument is 99%.
T or F

6. Prior to each day’s use, a bump test should be performed. If the instrument does not pass the bump test, a full calibration is recommended.
T or F

7. Oxygen enriched atmospheres may cause combustible gas readings to be higher than actual concentrations.
T or F

8. Silicone compound vapors or other known contaminants may affect the combustible gas sensor and cause readings of combustible gas to be lower than actual gas concentrations. If the instrument has been used in an area where silicone vapors were present, always calibrate the instrument before next use to ensure accurate measurements.
T or F

9. Sudden changes in atmospheric pressure may cause temporary fluctuations in the oxygen reading.
T or F

10. The MX6 iBrid utilizes a rechargeable lithium-ion battery pack P/N 1713-1038-4, or 1713-1038-5, containing either two or three 3.6V, 1.8 amp-hour Lithium Batteries.
T or F

11. A functional (bump) test is defined as a brief exposure of the monitor to a concentration of gas(es) in excess of the lowest alarm setpoint for each sensor for the purpose of verifying sensor and alarm operation and is NOT intended to be a measure of the accuracy of the instrument.
T or F

12. The maximum display range for the Oxygen sensor in the MX6 instrument is 25%/Vol.
T or F

13. The maximum display range for the Catalytic Methane sensor in the MX6 instrument is 5.00%/Vol.
T or F

14. Oxygen deficient atmospheres may cause combustible gas readings to be lower than actual concentrations.
T or F

15. The audible, visual AND vibratory alarms may all be completely disabled in the MX6 instrument.
T or F

16. Pressing the two outside keys on the 5 way navigation button will enter the set up menu.
T or F

17. Sensor Zeroing function is entered through the “View” menu.
T or F

18. Oxygen has a LOW ALARM limit of 19%.
T or F

19. If the user doesn’t remember the password, entering “412” as the password and pressing the [LEFT] and [RIGHT] navigation buttons simultaneously resets the password to nothing.
T or F

20. The use of leather cases can produce inaccurate readings with diffusion (non-aspirated) gas detection instruments for specific monitoring applications.
Leather cases should be used ONLY as carrying cases, and NOT for continuous monitoring, with diffusion instruments configured to measure gases other than O2, CO, CO2, H2S, and combustible gases (LEL/CH4).
T or F