

# 2013 Southern Mine Rescue Association Mine Rescue Contest, May 7-9 Bio Marine 240R/S Bench Written Test

Instructions:

Circle the correct letter or answer on this quiz that represents the **BEST** answer. If you need to change and correct your answer, make sure that all erasures are complete.

Please print your name & company **CLEARLY** in the space below.

**Name:** \_\_\_\_\_ **Company:** \_\_\_\_\_

*Circle "TRUE" or "FALSE"*

1. You must use the tool provided in the Test/Service kit when installing the components for the vent valve in order to get a tight proper seal.

T or F

2. NEW oxygen cylinders for the 240R/S have a service life of 25 years.

T or F

3. When the valve on the oxygen cylinder is opened, the bottle pressure is feed to the high pressure section of the regulator assembly.

T or F

4. When the emergency by-pass is activated, the additional release of oxygen will temporarily increase the constant flow.

T or F

5. The BioPak 240R/S should not be used and it should be thoroughly inspected if the Turnaround Maintenance Tag has not been dated.

T or F

6. All breathing oxygen must first pass through the Carbon Monoxide scrubber before going through the cooling section.

T or F

7. It is an accepted practice to train with the BioPak 240R/S without installing the either the frozen Gel-Tube or Ice Packs.

T or F

8. Due to the flow restrictor installed in the high-pressure line, it takes the 240R/S up to 90 seconds before it will supply breathing air when the valve on the Oxygen Cylinder is first opened.

T or F

9. Due to the 240R/S being a positive pressure unit, the user will not get contaminated breathing air in his system even if he has a leak in his mask due to facial hair.

T or F

10. Under heavy work conditions, if the user exhales and moves the diaphragm as far as it can travel, it will activate the demand valve.

T or F

11. The BioPak 240R/S alarm activates at 25% of full cylinder pressure giving the user an indication that he has only one hour left of oxygen.

T or F

12. The Oxygen Cylinder to Regulator mating seal should be kept lubricated with Cristo-Lube ONLY.

T or F

13. The large o-ring on the breathing chamber that seals the Carbon Dioxide scrubber medium in the breathing system, when damaged, could cause Carbon Monoxide to not be scrubbed from the breathing air.

T or F

14. During normal operation of the BioPak 240R/S, it is recommended to depress the emergency by-pass valve one or two seconds to keep the face mask from fogging.

T or F

15. The 240R/S oxygen cylinder is constructed of carbon fiber wrapped aluminum and has a service life of twenty five years.

T or F

16. Under heavy work conditions, if the user inhales and moves the diaphragm as far as it can travel, it will activate the demand valve.

T or F

17. Reduced duration (less than 4 hours) in the BioPak 240R/S may be caused by excessive use of the EMERGENCY BY-PASS, leaks in the BioPak breathing loop, poor face mask seal, or beards and eyeglasses that break the face mask seal.

T or F

18. If you hear the demand valve hit every time you inhale and you are not working hard, you should check you face mask for fit and adjust it for a better seal.

T or F

19. Under heavy work conditions, if the user exhales and moves the diaphragm as far as it can travel, it will activate the Vent Valve.

T or F

20. In a positive pressure respirator, the face piece pressure is maintained above the pressure outside the face piece.

T or F