



# BioPak 240

## BioPak 240 User's Quiz

### Instructions

Circle the correct letter or answer on this quiz that represents the BEST answer. If corrections are made, make sure all erasures are complete. Each question is worth 5 points for a total of 100 points. You have 20 minutes to complete this quiz. Please print your name clearly in the space below:

Name: \_\_\_\_\_

---

### Part 1, Multiple Choice

Circle the correct letter. Circle only one letter for each question.

1. The BioPak 240 is:
  - A. A positive pressure SCBA
  - B. A negative pressure SCBA
  - C. A decreased flow system
  - D. An open circuit SCBA
  
2. The rated duration (use) time for the BioPak 240 is:
  - A. 4 hours
  - B. 3 hours
  - C. 2 hours
  - D. 1 hour
  
3. The two most plentiful gases in air are:
  - A. Oxygen and Carbon Dioxide
  - B. Oxygen and Argon
  - C. Krypton and Xenon
  - D. Oxygen and Nitrogen
  
4. If you hear the Demand Valve hit every time you inhale, and you are not working hard, you should:
  - A. Use the Emergency By-Pass Valve
  - B. Breathe slower

- C. Turn off the oxygen cylinder
  - D. Check your facemask fit and adjust it for a better seal
5. The purpose of the BioPak 240's Lime-Pak canister is to remove:
- A. Carbon Dioxide
  - B. Carbon Monoxide
  - C. Oxygen
  - D. Water Vapor
6. When the alarm sounds on the BioPak 240, approximately how much breathing time is left?
- A. 2 hours
  - B. 1 hour
  - C. 5-6 minutes
  - D. 10-12 minutes
7. To get the best results from the speaking diaphragm, you should:
- A. Shout to be heard
  - B. Talk lower than normal
  - C. Use hand signals
  - D. Speak a little louder and enunciate your words
8. When the pressure gauge on the BioPak 240 is reading 3000 PSI you have about how many hours of breathing time left?
- A. 1 hour
  - B. 2 hours
  - C. 3 hours
  - D. 4 hours
9. In a positive pressure respirator the facepiece pressure is:
- A. Maintained below the pressure outside of the facepiece.
  - B. Maintained above the pressure outside of the facepiece.
  - C. Maintained the same as the pressure outside of the facepiece.
  - D. Negative compared to the pressure in the lungs.
10. Which of the following are warning symptoms that require immediate attention such as leaving the hazardous area:
- A. Nausea, dizziness or illness
  - B. Severed pressure gauge line
  - C. Difficulty inhaling or exhaling
  - D. Over actuation of the demand valve
  - E. All of the above
11. The Emergency By-Pass is located:
- A. Below the alarm whistle
  - B. Near the pressure gauge
  - C. On the top of the unit
  - D. On the facepiece

12. Reduced duration (less than 4 hours) in the BioPak 240 may be caused by:
- A. Leaks in the BioPak 240 breathing loop
  - B. Poor facemask seal, or beards and eyeglasses that break the facemask seal.
  - C. Excessive use of the emergency bypass valve
  - D. All of the above.
13. To use the Emergency By-Pass you should:
- A. Push the button in until you hear a hissing sound
  - B. Push the button in for 20 seconds
  - C. Push the button in for 10 seconds
  - D. Push the button in for 2 seconds
14. When the bottle pressure reaches 25% of its capacity the audible alarm will sound for approximately:
- A. 240 seconds
  - B. 3 minutes
  - C. 2 minutes
  - D. 30-90 seconds
15. When the pressure gauge on a BioPak 240 reads 2250 PSI you have approximately how much duration left?
- A. 2.5 hours
  - B. 3 hours
  - C. 120 minutes
  - D. 3-1/2 hours

**Part 2, True or False**  
Circle "True" or "False"

16. The working time for a properly used BioPak 240 depends on a person's breathing rate and physical activity while wearing the SCBA.
- TRUE  
FALSE
17. The BioPak 240 will provide you with 4 hours of working time if after 20 minutes you have used 300 PSIG of oxygen and you continue using oxygen at this rate until the BioPak 240 runs out of oxygen.
- TRUE  
FALSE
18. You should always check for a completed turnaround maintenance tag before donning a BioPak 240.
- TRUE  
FALSE
19. It is acceptable to reuse LimePak until it changes color.
- TRUE  
FALSE

20. The BioPak 240 should not be used, and it should be thoroughly inspected, if the Turnaround Maintenance Tag is missing

TRUE

FALSE

21. It is accepted practice to train or use the BioPak 240 without installing the frozen gel-tube.

TRUE

FALSE

22. It is accepted practice to train or use the BioPak 240 without personally inspecting the CO2 absorbent canister, the coolant canister and gel tube, and the Oxygen cylinder pressure.

TRUE

FALSE

23. Checking the face-mask operation prior to donning the BioPak 240 is the responsibility of the Benchman.

TRUE

FALSE

24. During normal operation of the BioPak 240 it is acceptable to practice to depress the Emergency By-Pass valve to clear the face-mask of fogging.

TRUE

FALSE

25. When the Emergency By-Pass is depressed the additional oxygen enters the top section of the center section and must pass through the CO2 scrubber before it reaches the diaphragm.

TRUE

FALSE