

**APPENDIX 2-QUIZ**  
**Breathing Aids and Oxygen Therapy**

Circle the letter of the best answer.

1. A device that may be used for ventilating a nonbreathing patient is a:
  - a. nasal cannula.
  - b. bag-valve mask.
  - c. nonrebreather mask.
  - d. venturi mask.
  
2. All bag-valve masks have a standard \_\_\_\_\_ mm respiratory fitting, so a variety of respiratory equipment and face masks can be used with it.
  - a. 5/10
  - b. 10/15
  - c. 15/22
  - d. 22/25
  
3. CPR is \_\_\_\_\_ less efficient than a healthy, beating heart circulating blood and oxygen.
  - a. one-third
  - b. two-thirds
  - c. one-half
  - d. three-fourths
  
4. When providing oxygen in the field, the standard source of oxygen is a seamless steel or lightweight alloy cylinder filled with oxygen under \_\_\_\_\_ of pressure.
  - a. 100 to 200 psi
  - b. 500 to 1000 psi
  - c. 2000 to 2200 psi
  - d. 3000 to 5000 psi
  
5. When using a nasal cannula with the liter flow set at 4 liters per minute (LPM), you will be delivering approximately \_\_\_\_\_ oxygen to the patient.
  - a. 24%
  - b. 28%
  - c. 32%
  - d. 36%
  
6. A nonrebreather mask is used to deliver \_\_\_\_\_ concentrations of oxygen to the patient.
  - a. high
  - b. low
  - c. medium
  - d. restricted
  
7. If a nonrebreather mask is recommended and you only have a nasal cannula or the patient will not tolerate the mask, provide oxygen by cannula at a rate of \_\_\_\_\_ per minute.
  - a. 2 liters
  - b. 4 liters
  - c. 6 liters
  - d. 10 liters
  
8. For environmental emergencies, the First Responder should provide oxygen by \_\_\_\_\_ at 12-15 liters per minute (LPM).
  - a. nasal cannula
  - b. venturi mask
  - c. bag-valve mask
  - d. nonrebreather mask

9. When using a bag-valve mask with atmospheric air, the First Responder will be providing \_\_\_\_\_ oxygen to the patient.
  - a. 16%      c. 50%
  - b. 21%      d. 100%
  
10. Which method should be used to administer oxygen to newborn infants?
  - a. blow-by      c. bag-valve mask
  - b. nonrebreather mask      d. nasal cannula

**APPENDIX 2-REVIEW**

Write the word or words that best complete each sentence in the space provided.

1. The administration of oxygen may require orders from a Medical Director in some jurisdictions because oxygen is a \_\_\_\_\_ .
  
2. The \_\_\_\_\_ ventilator is one of the most commonly used field devices for ventilating a nonbreathing patient.
  
3. When a bag-valve-mask unit will not deliver air to the patient's lungs, most often the problem is caused by an \_\_\_\_\_ between the patient's face and mask.
  
4. The 21% oxygen provided by the bag-valve mask is effective if the airway is \_\_\_\_\_, the \_\_\_\_\_ surfaces of the lungs are working properly, there is enough \_\_\_\_\_ available to be picked up by the blood, and the patient's \_\_\_\_\_ and \_\_\_\_\_ are properly circulating blood to all the body tissues.
  
5. Oxygen cylinders should never be allowed to empty below the \_\_\_\_\_ .
  
6. \_\_\_\_\_ is of prime importance when working with oxygen cylinders.
  
7. The safe working pressure for oxygen administration is \_\_\_\_\_ to \_\_\_\_\_ pounds per square inch.
  
8. A \_\_\_\_\_ is connected to the pressure regulator to give the user control over the flow of oxygen in liters per minute.
  
9. When using the nonrebreather mask, be sure to \_\_\_\_\_ the reservoir bag before placing the mask on the patient's face.
  
10. The minimum flow rate when using a nonrebreather mask is \_\_\_\_\_ liters per minute.