QUIZ 7

- 1. During an unforced exhalation/expiration, all of the following are true except
- A. Alveolar pressure is greater than atmospheric pressure
- B. Intrapleural pressure is greater than alveolar pressure
- C. Transpulmonary pressure decreases
- D. The diaphragm relaxes
- ሺ. Lung volume decreases



- 2. Compared to a normal person, a person experiencing metabolic acidosis will have A. Increased renal secretion of hydrogen ion
- B. Increased renal reabsorption of bicarbonate ion
- C. Increased arterial partial pressure of CO2.
- D. Both A and B
- E. All of the choices are correct



- 3. The kidneys respond to hypoventilation by
- A. Increasing their secretion of H+ and increasing their reabsorption of HCO3-
- B. Increasing their secretion of H+ and decreasing their reabsorption of HCO3-
- C. Decreasing their secretion of H+ and increasing their reabsorption of HCO3-
- D. Decreasing their secretion of H+ and decreasing their reabsorption of HCO3-
- E. None of these choices



- 4. That the lung surface and the thoracic wall will move in and out together, rather than separately, during ventilation is assured by the
- A. Diaphragm
- B. Inhalatory/inspiratory intercostal muscles
- C. Exhalatory/expiratory intercostal muscles
- D. Intrapleural fluid
- E. Alveoli



- 5. Hypoventilation is a cause of
- A. Metabolic acidosis
- B. Respiratory acidosis
- C. Metabolic alkalosis
- D. Respiratory alkalosis
- E. None of these things



- 6. In order for the lungs to function normally, the intrapleural pressure must A. Be lower than alveolar pressure
- B. Be between +5 and +10 mm Hg above atmospheric pressure
- C. Alternate between being less than and greater than atmospheric pressure
- D. Change as the respiratory demands of the body change
- E. Be the same as atmospheric pressure



- 7. Under normal circumstances, an increase in transpulmonary pressure will result in
- A. Inhalation/inspiration
- B. Exhalation/expiration
- C. A collapsed lung
- D. All of these things
- E. None of these things



- 6 8. The pleural sac
 - A. Protects lungs from infection
 - B. Prevents collapse of the lungs
 - C. Contains a large volume of surfactant
 - D. Supports the chest wall and keeps it from collapsing into lungs
 - E. Both B and D



- 9. Inhalation/inspiration occurs as a result of
- A. An upward movement of the diaphragm
- B. Movement of the ribs closer together due to contraction of the inspiratory/inhalatory intercostal muscles
- C. A downward movement of the diaphragm
- D. Both A and B
- E. Both B and C



- 10. Carbonic anhydrase catalyzes the chemical combination of
- A. H2O and O2
- B. H2O and CO2
- C. H2O and CO
- D. H+ and HCO3-
- E. None of these choices