8/100

QUIZ 8

E

. 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



During hypoventilation

- A. A person's rate and depth of ventilation is dramatically increased
- -B. The person's levels of blood CO2 increase
- C. The person's levels of blood H+ ions increase; blood pH decreases
- D. Both A and C
- E. Both B and C

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- 3. Hyperventilation
- A. Results in respiratory alkalosis
- B. Results in respiratory acidosis
- C. Lowers blood PCO2
- D. Both A and C
- E. Both B and C

B

- 4. 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
- Lung volume decreases

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5. The skeletal muscles involved in producing the contractions related to inspiration are stimulated by motor impulses originating from

- A. The ventral respiratory group of the medulla oblongata
- B. The Pre-Botzinger complex
- C. The dorsal respiratory group of the medulla oblongata
 - D. Pneumotaxic center of the pons
 - E. Apneustic center of the pons

- 6. Which of the following statements regarding the transport of CO2 in blood is true? A. Some of the CO2 in blood is dissolved in plasma

 - B. Some of the CO2 in blood is dissolved in the cytosol of erythrocytes
 - C. Some of the CO2 in blood is bound to hemoglobin
 - D. Most of the CO2 in blood is converted to another molecule
 - E. All of the these statements are true
- - 7. Hyperventilation results in A. Increased alveolar PCO2 and decreased alveolar PO2
 - B. Increased alveolar PCO2 and PO2
 - C. Decreased alveolar PCO2 and increased alveolar PO2
 - D. Decreased alveolar PCO2 and PO2
 - E. No change in alveolar PCO2 gas concentrations
- 8. Hemoglobin
 - A. Has a higher affinity for H+ when in the deoxy state
 - B. Increases the oxygen-carrying capacity of blood
 - C. Has a higher affinity for oxygen during exercise due to increased temperature and decreased pH
 - D. Both A and B
 - E. Both B and C
 - 9. 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
 - 10. Asthma is caused by
 - A. Loss of alveoli
 - B. Inflammation of the bronchioles
 - C. Elevation of intrapleural pressure to equal atmospheric pressure
 - D. Both A and B
 - E. Both A and C