

Respiratory Physiology Assignment

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1. Which of the following options correctly represents the chemical reaction in converting carbon dioxide (CO₂) to bicarbonate ions (HCO₃⁻), along with the corresponding enzyme?

- a) $\text{CO}_2 + \text{H}_2\text{O} \rightleftharpoons \text{H}_2\text{CO}_3 \rightleftharpoons \text{H}^+ + \text{HCO}_3^-$ (carbonic anhydrase)
- b) $\text{CO}_2 + \text{H}_2\text{O} \rightleftharpoons \text{H}_2\text{CO}_3 \rightleftharpoons \text{HCO}_3^- + \text{H}^+$ (carbonic dehydrogenase)
- c) $\text{CO}_2 + \text{H}_2\text{O} \rightleftharpoons \text{HCO}_3^- + \text{H}^+$ (carbonic anhydrase)
- d) $\text{CO}_2 + \text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{HCO}_3^-$ (carbonic dehydrogenase)

2. Which of the following lung function tests is typically employed to distinguish between obstructive and restrictive lung diseases?

- a) Chest X-ray.
- b) Spirometry.
- c) Pulse oximetry.
- d) Bronchoscopy.

3. Which statement accurately describes asthma?

- a) A decrease in lung elasticity causes asthma.
- b) Asthma often leads to lung expansion and the development of a barrel chest.
- c) Asthma is characterized by difficulty in inhaling air from the atmosphere.
- d) Individuals with asthma experience challenges in fully expanding their lungs.

4. Among the following factors, which one is NOT a significant cause of alveolar collapse resulting from surface tension during respiratory distress syndrome in newborns?

- a) Insufficient secretion of surfactant by type II pneumocytes in the alveoli
- b) Decreased alveolar radius in premature infants
- c) Preterm birth during the final trimester of pregnancy
- d) Excessive surfactant presence at birth

5. Which of the following factors contributes to the higher oxygen affinity of fetal hemoglobin (HbF) compared to adult hemoglobin (HbA)?

- a) Presence of 2,3-bisphosphoglycerate (2,3-BPG) in higher concentrations.
- b) Higher expression of alpha-globin chains in fetal erythrocytes.
- c) Substitution of histidine for glutamic acid at position 143 of the beta-globin chain.
- d) The decreased binding affinity of fetal hemoglobin for carbon dioxide (CO₂).

6. Which respiratory volumes cannot be directly measured using spirometry?

- a) Functional Residual Capacity (FRC)
- b) Tidal volume (TV)
- c) Vital capacity (VC)
- d) Expiratory reserve volume (ERV)

Mcqs With Answers On Respiratory Physiology

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Clarke, Hussein Khambalia**



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