

CHAPTER 49.4: Gas Exchange

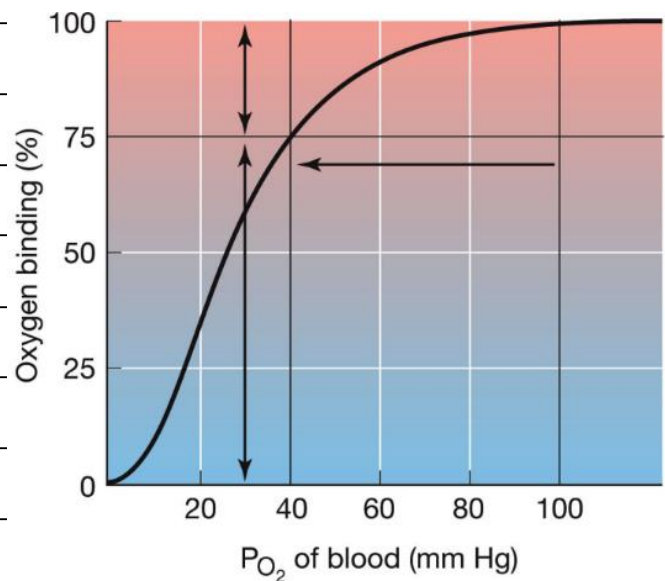
1. Explain the concept of partial pressures of gases as they relate to the rates of diffusion of O₂ and CO₂.

2. What are two features of a good respiratory surface?

3. What is the role of alveoli?

4. Describe the adaptive value of hemoglobin's association with oxygen.

5. Explain what **Figure 49.12** means about the binding of oxygen to hemoglobin.



Name: _____

Question Set 21

6. Reivew the dissociation curves for hemoglobin:

a. Why does oxygen leave hemoglobin when it passes through the body tissues?

b. How does pH reduction influence the release of oxygen from hemoglobin?

CHAPTER 9.6: Respiration Regulation

7. Identify examples of each of the following feedback mechanisms in aerobic respiration:

a. negative feedback _____

b. positive feedback _____

8. If the body has enough ATP, what is the fate of acetyl-CoA?
