stimulated b. DRG is stimulated, VRG is inhibited c. DRG is stimulated, VRG is stimulated d. DRG is inhibited, VRG is inhibited 4. Explain how low P02 stimulates the body to hyperventilate a. Low PO2 triggers in glomus cells to close, causing the cell . This causes voltage gated channels to open, further depolarizing the an action potential is sent to These then send signate which stimulates hyperventilation. 5. Which disease would a person climbing Mt. Everest most likely develop? a. Cardiac thrombosis b. Pulmonary thrombosis c. Pulmonary Edema d. Acidosis e. Alkalosis 6. Explain why the climber would be likely to develop this particular disease. 7. What two purposes does the conversion of C02 to HC03 serve?	 What is the main cause for peripheral chemoreceptors to be activated?
 How is the majority of C02 transported in the body? In the tissue In RBC In the plasma Through air Which of the following combinations would allow a person to inspire? Dorsal Respiratory Group (DRG) is inhibited, Ventral Respiratory Group (Vistimulated) DRG is stimulated, VRG is inhibited DRG is stimulated, VRG is stimulated DRG is inhibited, VRG is inhibited Explain how low P02 stimulates the body to hyperventilate Low PO2 triggers in glomus cells to close, causing the cell. This causes voltage gated channels to open, further depolarizing the an action potential is sent to These then send signal which stimulates hyperventilation. Which disease would a person climbing Mt. Everest most likely develop? Cardiac thrombosis Pulmonary thrombosis Pulmonary Edema Acidosis Alkalosis Explain why the climber would be likely to develop this particular disease. What two purposes does the conversion of C02 to HC03 serve? Explain why C02 forms HC03 and H in the systemic capillaries, but HC03 and H in the systemic capillaries. 	B. What are two ways that this can happen
 a. In the tissue b. In RBC c. In the plasma d. Through air 3. Which of the following combinations would allow a person to inspire? a. Dorsal Respiratory Group (DRG) is inhibited, Ventral Respiratory Group (Vistimulated) b. DRG is stimulated, VRG is inhibited c. DRG is stimulated, VRG is stimulated d. DRG is inhibited, VRG is inhibited 4. Explain how low P02 stimulates the body to hyperventilate a. Low PO2 triggers in glomus cells to close, causing the cell b. This causes voltage gated channels to open, further depolarizing the an action potential is sent to These then send signal which stimulates hyperventilation. 5. Which disease would a person climbing Mt. Everest most likely develop? a. Cardiac thrombosis b. Pulmonary thrombosis c. Pulmonary Edema d. Acidosis e. Alkalosis 6. Explain why the climber would be likely to develop this particular disease. 7. What two purposes does the conversion of C02 to HC03 serve? 8. Explain why C02 forms HC03 and H in the systemic capillaries, but HC03 and H in the systemic capillaries, but HC03 and H	I. What are minor stimulants for peripheral chemoreceptors?
 a. Dorsal Respiratory Group (DRG) is inhibited, Ventral Respiratory Group (Vistimulated) b. DRG is stimulated, VRG is inhibited c. DRG is stimulated, VRG is stimulated d. DRG is inhibited, VRG is inhibited 4. Explain how low P02 stimulates the body to hyperventilate a. Low PO2 triggers	a. In the tissueb. In RBCc. In the plasma
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	8. Explain why C02 forms HC03 and H in the systemic capillaries, but HC03 and H form
9. What is the chloride shift and what does it accomplish?	9. What is the chloride shift and what does it accomplish?

- 11. What is a buffer, give an example.
- 11. During acidosis, which type of cells are activated, what is their location, and what do they do?
- A. Intercalated type B cells, distal tubule, secrete H+ and reabsorb HC03-
- B Intercalated type A cells, proximal tubule, secrete H+ and reabsorb HC03-
- C.Intercalated type A cells, distal tubule, secrete H+ and reabsorb HC03-
- D. Intercalated type B cells, distal tubule, secrete H+ and HC03-
- 12 What condition may develop from extended acidosis compensation?
- A. Alkalosis
- B. Hyperkalemia
- C. Hypokalemia
- D. Cyanosis
- 13. Which of the following would not be a cause for alkalosis?
- A. Hyperventilation
- B. Vomiting for a long period of time
- C. Taking an excess of Tums (antacids)
- D. Hypoventilation