

15) What is the function of carbonic anhydrase?

To catalyze the reaction:



16) What part of the brain is responsible for the breathing rate? It does this by detecting what? Is this a negative or a positive feedback loop?

Breathing center in the medulla.

It does this by detecting a drop in pH in the blood (the more H_2CO_3 in the system, the lower the pH)

Negative feedback loop.

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17) What is inside of saliva that plays a role in digestion? Explain.

Amylase: Breaks down polysaccharides into disaccharides.

Mucin: Provides lubrication

18) What is peristalsis?

The motion of smooth muscles on the walls of the esophagus contracting and pushing food down from the mouth to the esophagus.