15) What is the function of carbonic anhydrase?

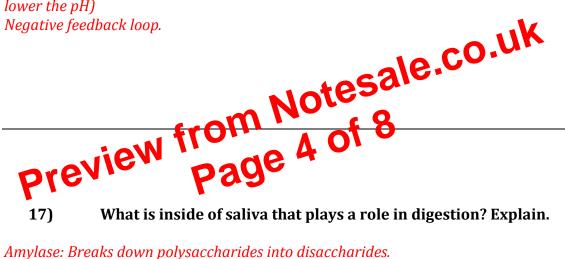
To catalyze the reaction: $CO_2 + H_2O < ----> H_2CO_3$

> 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.



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.