

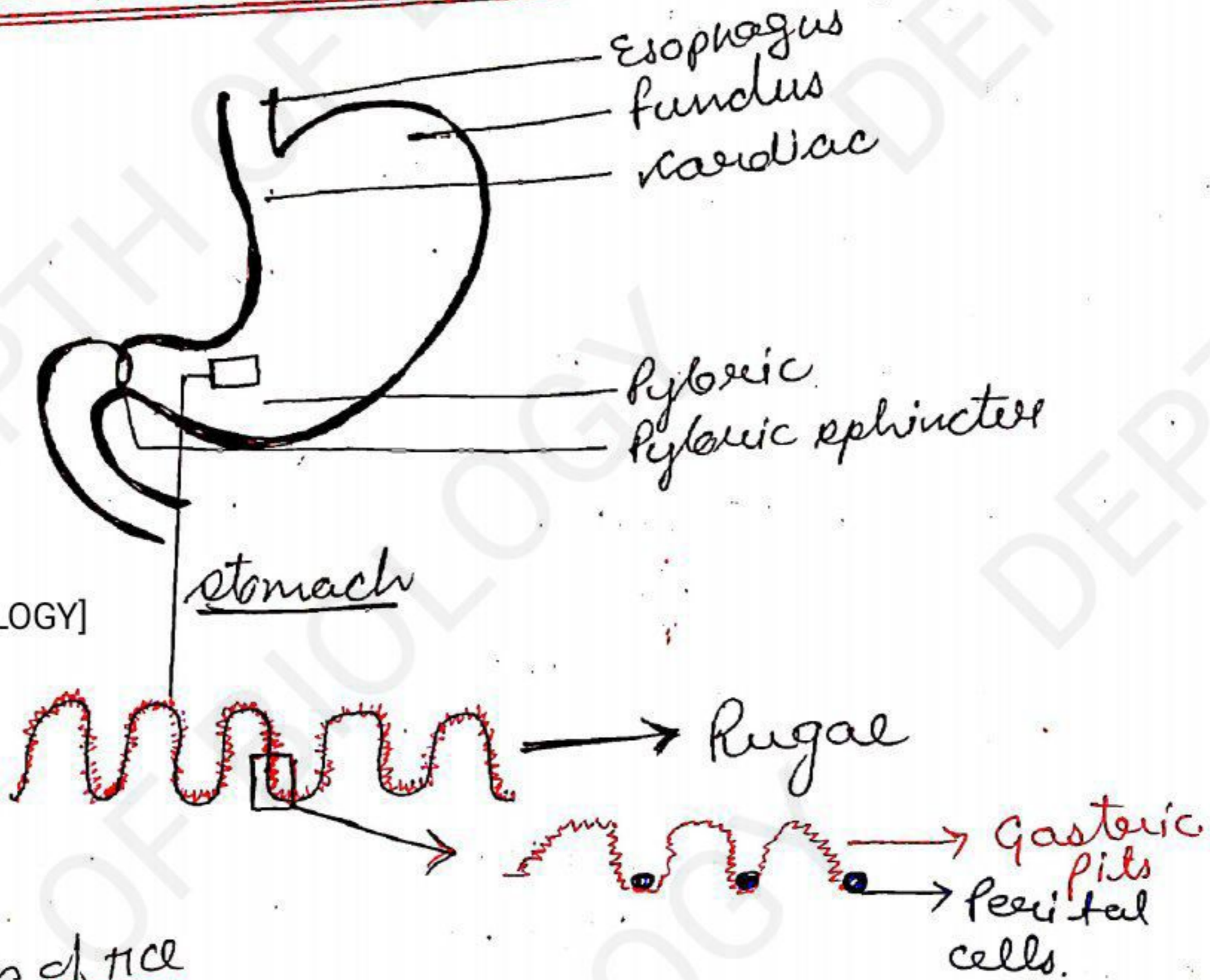
• Acid Production in Stomach

• Regulation of acid production through parasympathetic nervous system.

• Pepsin role in protein digestion

[DEPTH OF BIOLOGY]

* Acid Production in Stomach



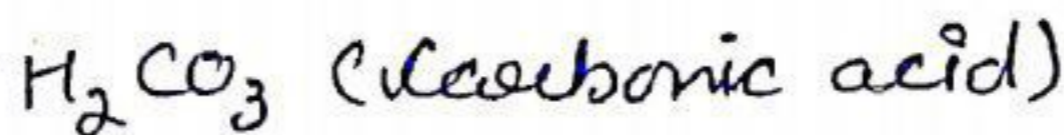
[DEPTH OF BIOLOGY]

Formation of HCl

• Parietal cells of gastric glands produce HCl

Not secreted in the form of acid but as individual ions.

In parietal cells CO_2 & H_2O joins
 \downarrow carbonic anhydrase



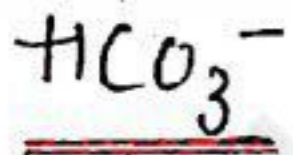
\downarrow Immediately



[DEPTH OF BIOLOGY]

* These ions leave the cell but in opposite direction.

* CO_2 used in the above process is taken from blood vessels



- going to interstitial fluid in exchange of Cl^- Ion
- once HCO_3^- enters into interstitial fluid it is going to blood stream. This is called alkaline tide because it is significant in raising the pH of blood. [DEPTH OF BIOLOGY]

The Cl^- ion will diffuse to the parietal cell and reaches the lumen of the stomach H^+ ion also leave the cell and goes to lumen of stomach

Once the H^+ and Cl^- ions are reached into the lumen

↓
They join to form HCl

