

**Topic: Nutrition**  
**Class: B.Sc Part –III (Hons.)**  
**Paper- V**  
**Group – B**

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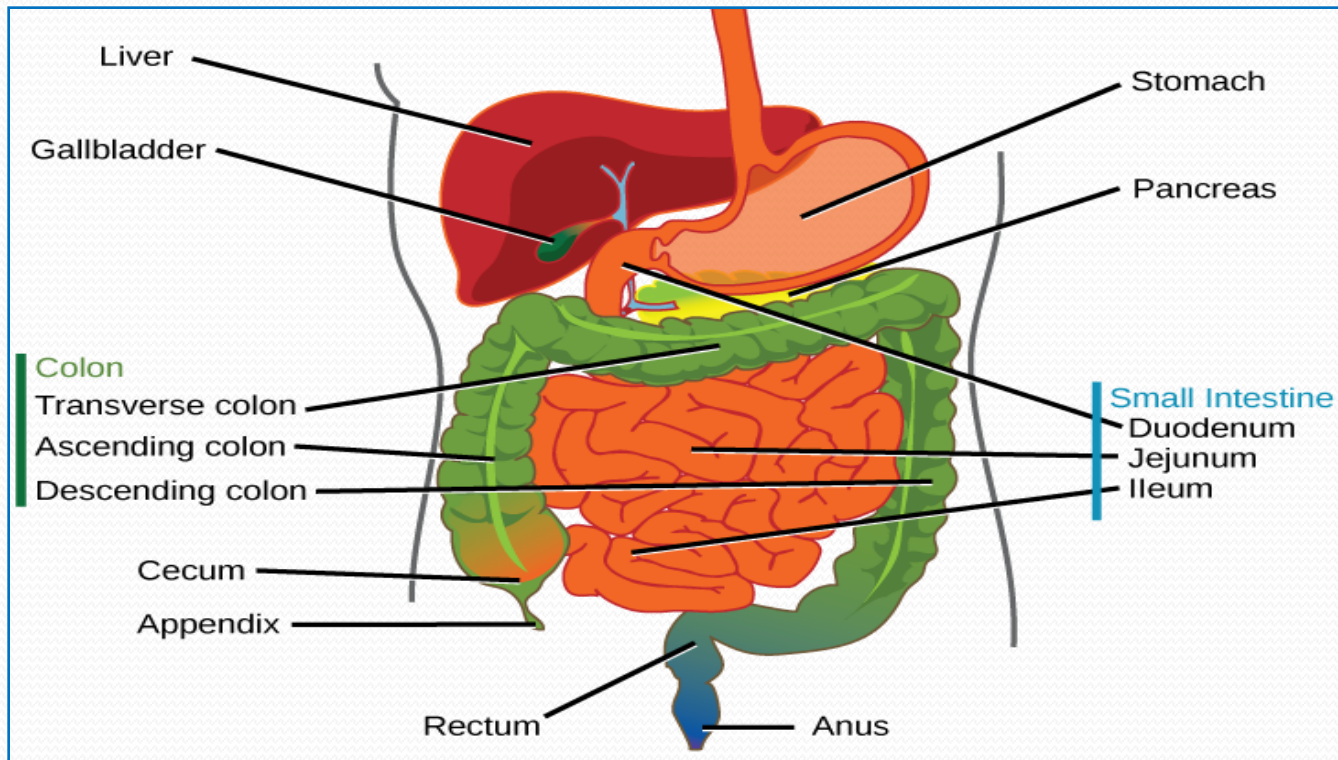
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# Stomach

- A large part of protein digestion occurs in the stomach .
- The stomach is a saclike organ that secretes gastric digestive juices.
- Protein digestion is carried out by an enzyme called pepsin in the stomach chamber.
- The highly acidic environment kills many microorganisms in the food and, combined with the action of the enzyme pepsin, results in the catabolism of protein in the food

# Stomach



- Chemical digestion is facilitated by the churning action of the stomach caused by contraction and relaxation of smooth muscles.
- The partially digested food and gastric juice mixture is called chyme.
- Gastric emptying occurs within two to six hours after a meal.
- Only a small amount of chyme is released into the small intestine at a time.

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- The movement of chyme from the stomach into the small intestine is regulated by hormones, stomach distension and muscular reflexes that influence the pyloric sphincter.
  - The stomach lining is unaffected by pepsin and the acidity because pepsin is released in an inactive form and the stomach has a thick mucus lining that protects the underlying tissue.