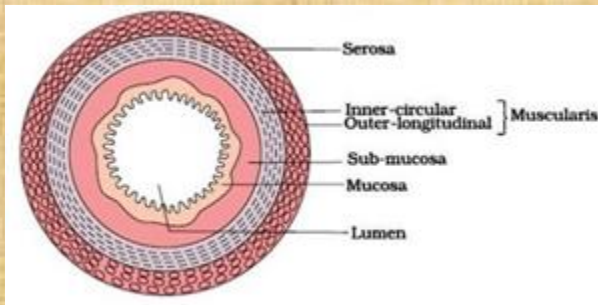


Chapter 16

DIGESTIVE SYSTEM

HISTOLOGY OF ALIMENTARY CANAL:



- The wall of alimentary canal from oesophagus to Rectum possesses 4 – layers.

- Serosa
- Muscularis Externa
- Sub Mucosa
- Mucosa

Serosa :

- Outermost layer
- Made up of thin simple squamous epithelium and areolar tissue.
- Absent in oesophagus [Adventitia – areolar connective tissue]

Muscularis Externa:

- Formed by smooth muscle
- Inner circular and outer longitudinal muscle layer.
- Skeletal muscle present and provides voluntary swallowing mechanism.
- Between longitudinal and circular muscles auerbach's plexus or myoenteric plexus is present.
- Which regulates peristaltic movements and movement of villi.

Sub - Mucosa:

- It is formed by loose connective tissue with nerves, blood and Lymph vessels.

- It contains some digestive glands [Brunner's glands] between muscularis and sub mucosa.
- Messner's plexus or sub-mucosal plexus is present, which regulates the digestive gland secretions.

Mucosa:

- Inner most layer.
- **Lamina propria** – Composed with mucosa associated lymphoid tissue.
- **Muscularis** – Thin layer of smooth muscles.

