

7.1 Digestion in Man

NUTRITION

→ **NUTRIENT** → Essential for Growth
Energy Source

Micro-Nutrient

- Vitamin (NAD, FAD)
- Minerals (I_2 , Zn ...)

↑↑ Micro-Nutrient

- Carbohydrates
- Lipids
- Proteins

DIGESTION

ENDODERM →

DIGESTIVE SYSTEM

Sac Like Digestive System

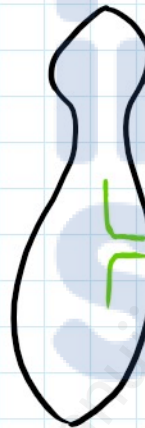


G.I.T

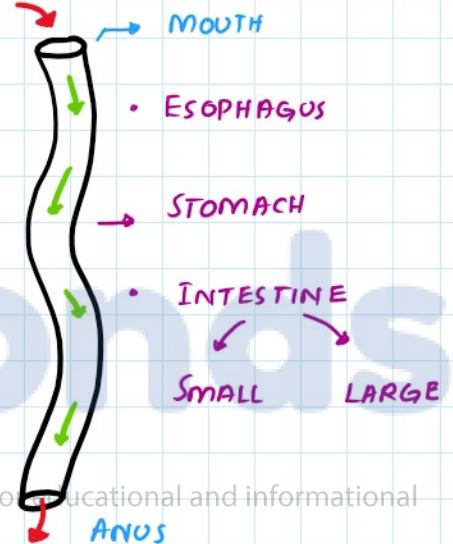
9 meter
(30 feet)

ASSOCIATED GLANDS

- Liver
- Pancreas



Tube Like Digestive System



- COELENTRATA
- PLATYHELMINTHESE

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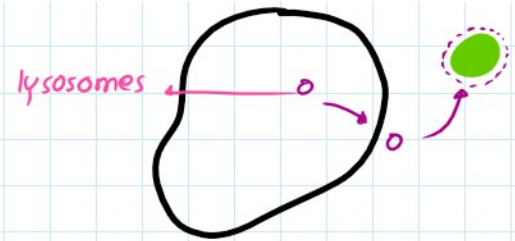
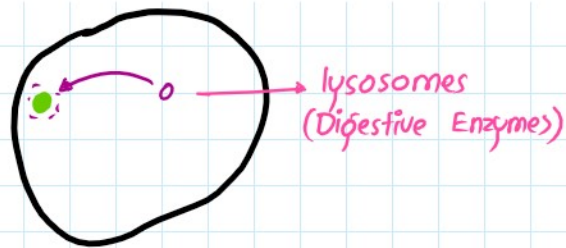
- ASCHELEMINTHESE → CHORDATES
(Round Worms) (MAN)

DIGESTION

- Larger molecules → Smaller molecules
- Macromolecules → Micro-molecules
- Non-Diffusable → Diffusable

Intracellular Digestion

Extracellular Digestion



Chemical Digestion

WITH ENZYME

ORAL CAVITY :

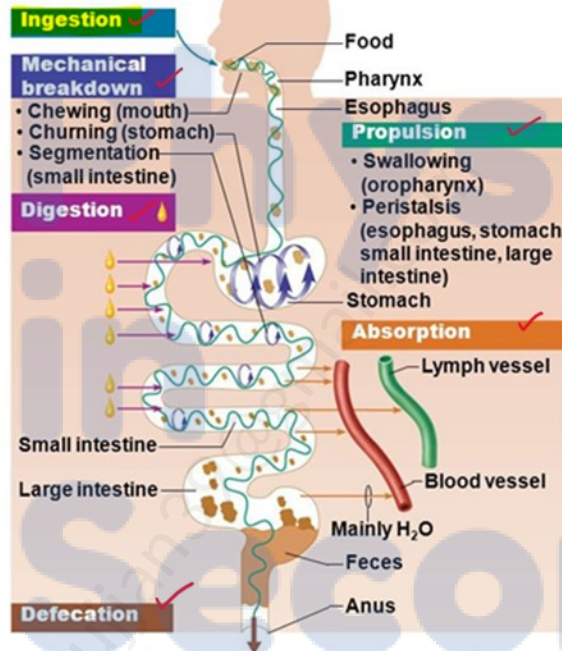
→ Saliva
Salivary Amylase

STOMACH :

→ Gastric Juice

SMALL INTESTINE

→ Intestinal Juice



Mechanical Digestion

WITHOUT ENZYME

ORAL CAVITY :

→ CHEWING / MASTICATION

STOMACH :

→ Churning

SMALL INTESTINE

→ Emulsification

Fats → Smaller molecules

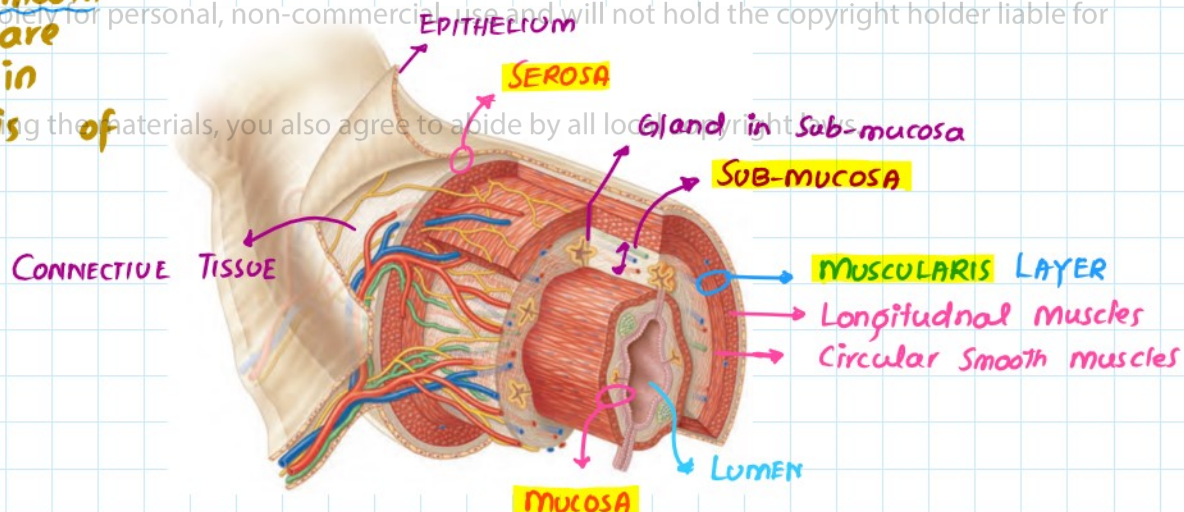
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Layers of Alimentary Canal

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• Oblique Smooth Muscles are present in muscularis of Stomach.



Sphincters

Alimentary canal

06 ✓

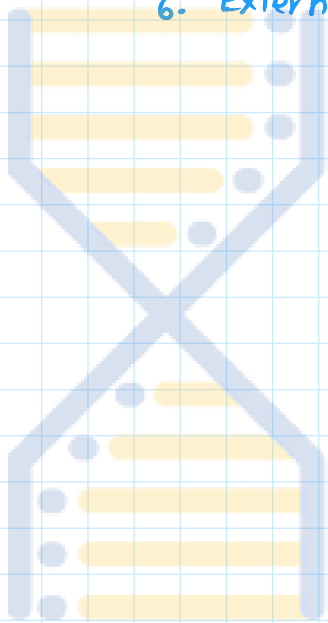
1. Upper Esophageal Sphincter (UES)
2. Lower Esophageal Sphincter (LES)
(Cardiac Sphincter)
3. Pyloric Sphincter
4. Ileo-colic Sphincter
5. Internal Smooth sphincter of Anus
6. External Striated Sphincter

Digestive System

06 + 01



Associated Gland
(Sphincter of Oddi)



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in
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