

Chapter 16

DIGESTIVE SYSTEM

ALIMENTARY CANAL:

- GIT is a Muscular Tube that extends between Mouth to Anus.
- It develops from Ectoderm and Endo derm.
- Length of Alimentary canal average is 8 mtrs.

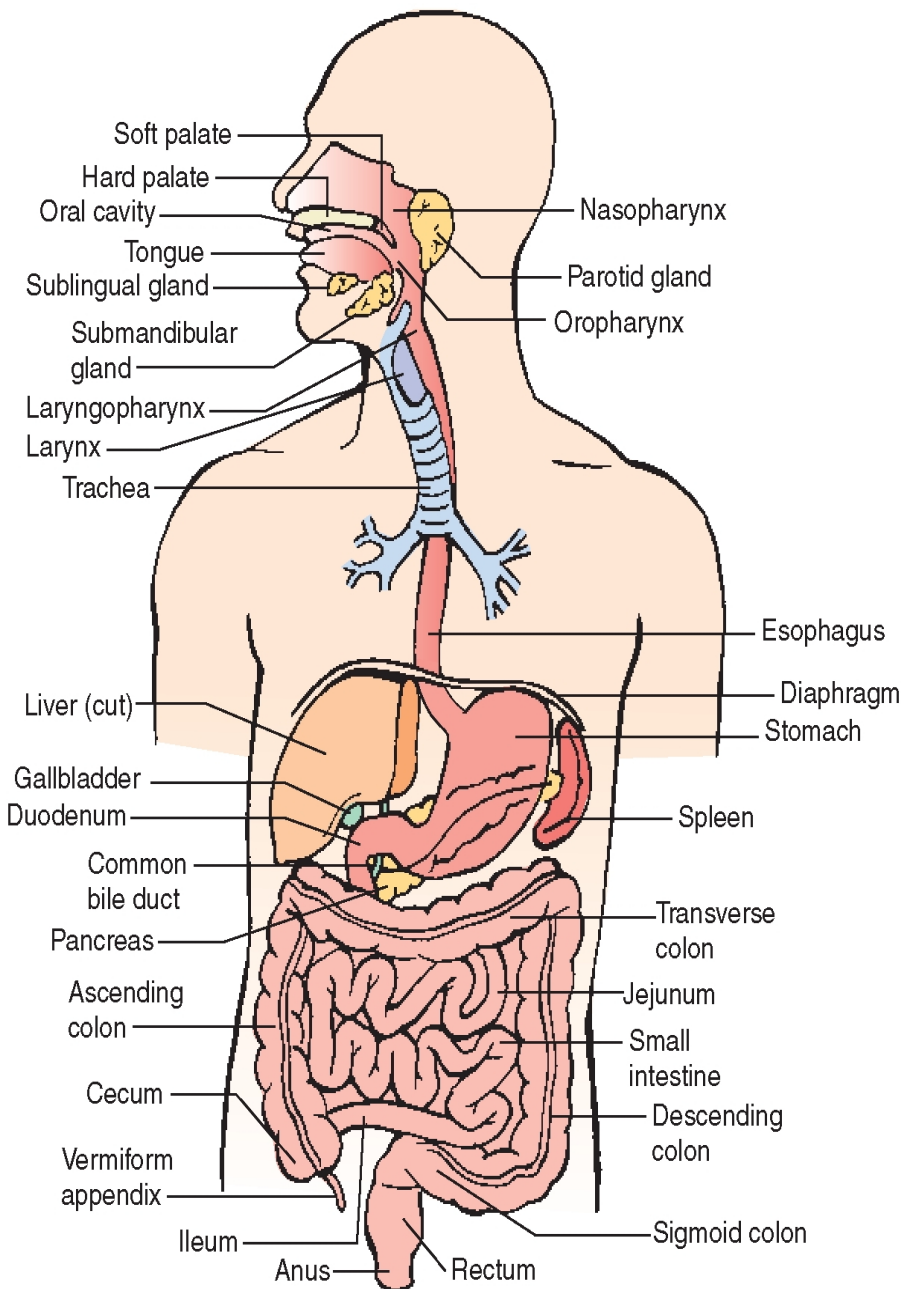


Figure : Alimentary Canal

Mouth:

- Anterior opening of Buccal cavity, Guarded by 2 movable lips.

Philtrum:

- Depression present to the upper lip.

Buccal cavity:

- Oral cavity

Cheeks:

- These are Lateral walls which cover oral cavity.

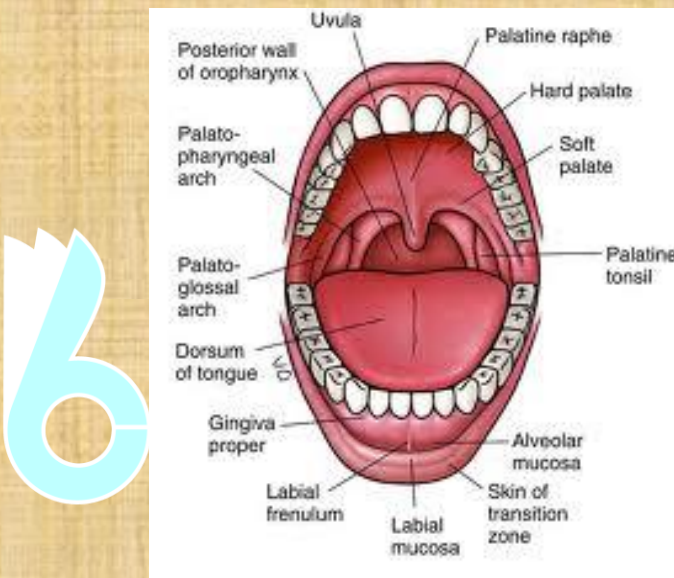


Figure: Buccal cavity Diagram

TEETH:

- Ecto- Mesodermal origin
- These are Mastigatory organs.
- Teeth in Man 3 types:
 - Thecodont**
 - Diphyodont**
 - Heterodont**

(i) Thecodont:

- Teeth embedded in the alveolar process of Jaw bones.
- Teeth covered by Gums (or) Gingivae.

(ii) Diphyodont:

- In Human life 2 steps of teeth.
- 1st – Deciduous teeth (or) Milk teeth

- 2nd – Permanent teeth (or) Adult Teeth.
- Last molar teeth are wisdom teeth.
- In human life 20 teeth shows Diphyodont character.

(iii) Heterodont:

- Four types of teeth present,
- Incisor's, Canines, Premolar, Molar.
- Biting Teeth – Incisor's, Canines
- Grinding Teeth- Premolar, Molar

Dentition:

- Arrangement of teeth on Jaws.

Dental Formula:

- Teeth arranged by an Equation in Jaws.

$$\text{ADULT} - \frac{2123}{2123} \times 2 = 32;$$

$$\text{CHILD} - \frac{2102}{2102} \times 2 = 20$$

STRUCTURE OF TEETH:

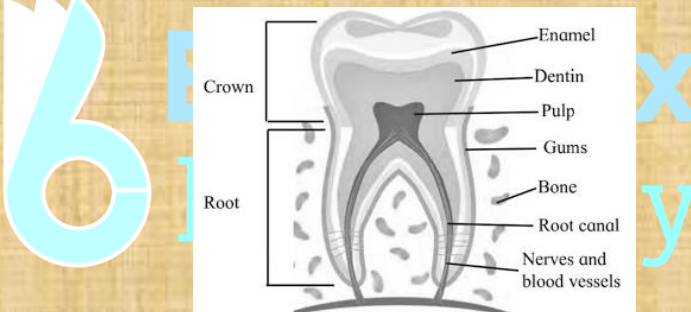


Figure: Teeth Structure

- A single tooth consists of 3- parts.
 - 1) Crown [Exposed part]
 - 2) Neck [Enclosed by gum]
 - 3) Root [Embedded in socket of Jaw Bone]
- Major part of tooth made up of Dentine
- Dentine is secreted by odontoblasts – Mesodermal origin
- Dentine of Crown is covered by Enamel.
- Enamel is secreted by Ameloblasts – Ectodermal origin. It is the Hardest part of the Body.
- Small cavity inside the tooth called Pulp cavity.
- In adult pulpcavity shrink narrow called Root canal.
- Each root has an opening at the base through which blood vessels, Lymph vessels & nerves.

- Dentine of root is covered by cementum – Cementoblasts.
- Between the root and Bone periodontal membrane is present.
- Root is fixed in socket by cementum and periodontal membrane.
- The neck of the root is Enclosed by Gum/ Gingiva.

