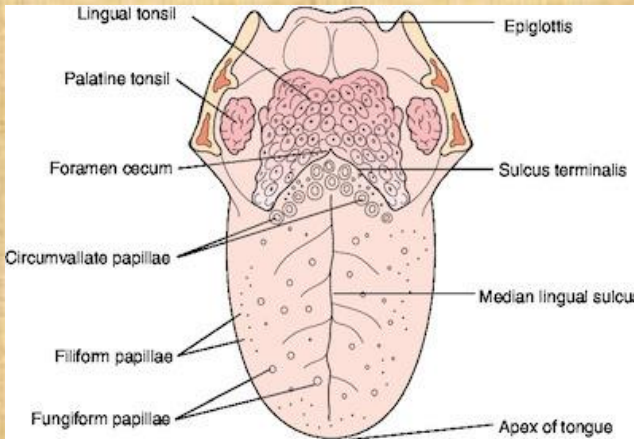


Chapter 16

DIGESTIVE SYSTEM

TONGUE: Lingua



- Freely movable muscular organ in the oral cavity.
- Skeletal Muscle present, covered with Mucous membrane.
- Anterior end is free,
- Posterior end attached to Hyoid Bone.
- Ventral surface of tongue attached to the floor of the buccal cavity by Lingual Frenulum.
- Tongue also divided into oral part and pharyngeal part.
- These are separated by an inverted 'V' shaped Furrow called – Sulcus terminalis'.
- Tongue is associated with Extrinsic and Intrinsic Muscles.
- **Extrinsic Muscles** – Move the tongue
- **Intrinsic Muscles** – alter the shape and size of the Tongue for speech and swallowing.
- Papillae small out growth on the surface of tongue.
- Vallate Papillae [circum] – Largest papillae which are 8 to 12 arranged near 'V' shape "Sulcus terminalis".

TASTE BUDS:

Four types of papillae.

- 1) Circum vallate papillae – Filament shape

- 2) Fungi form papillae – Mushroom shape
- 3) Foliate form papillae – Leaf shape
- 4) Filiform form papillae – Pointed shape

Anterior part of Tongue – **Sweet taste**

Posterior part of tongue – **Bitter taste**

Lateral part of tongue – **Sour taste**

Middle part of tongue(behind the Anterior) –

Salty taste



- ❖ Taste of chilli(spice) is not real taste but it is burning Sensation of Nerves.

Functions Of Tongue:

- Acts organ of taste
- Mixing food with saliva and swallowing
- Cleaning – Universal tooth brush
- Helps in speech.

Structure of Tooth:

Animation required.

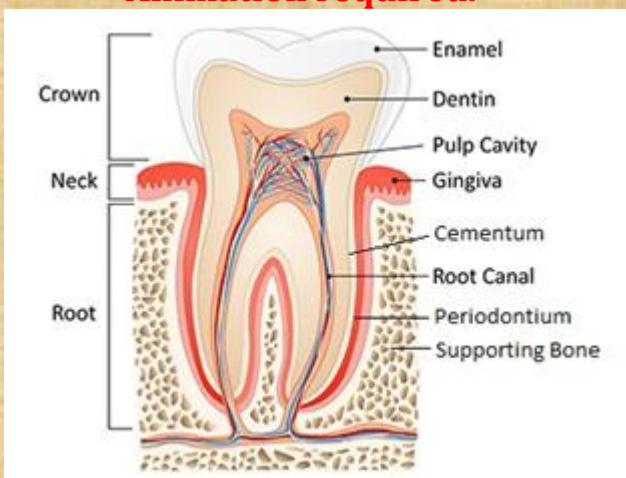


Figure: Tooth with Parts

Hardest Part of Tooth: (True/False)

Enamel is the hardest part of the body.

Major part of Tooth is made up of: (True/False)

Dentine is the major part.

Visible part of tooth is covered by: (True/False)

Crown of the tooth.

- **Another name of Tongue: Lingua. (True/False)**
- **Tongue composed with: Skeletal muscles. (True/False)**
- **Posterior part of Tongue attached to: Hyoid bone. (True/False)**
- **Ventral surface of Tongue attached to: Floor of Buccal Cavity by Lingual Frenulum. (True/False)**
- **Tongue divided by 'V' shape structure called: Sulcus Terminalis. (True/False)**
- **Types of Muscles in tongue: Extrinsic Muscle and Intrinsic Muscle. (True/False)**
- **Taste buds also called: Papillae. (True/False)**
- **Types of taste buds: (True/False)**
 - 1) Circum vallate papillae
 - 2) Fungi form
 - 3) Foliate form
 - 4) Filiform papillae
- **Functions of Tongue: (True/False)**
 - 1) Organ of taste
 - 2) Mixing food with saliva and swallowing
 - 3) Helps in speech.