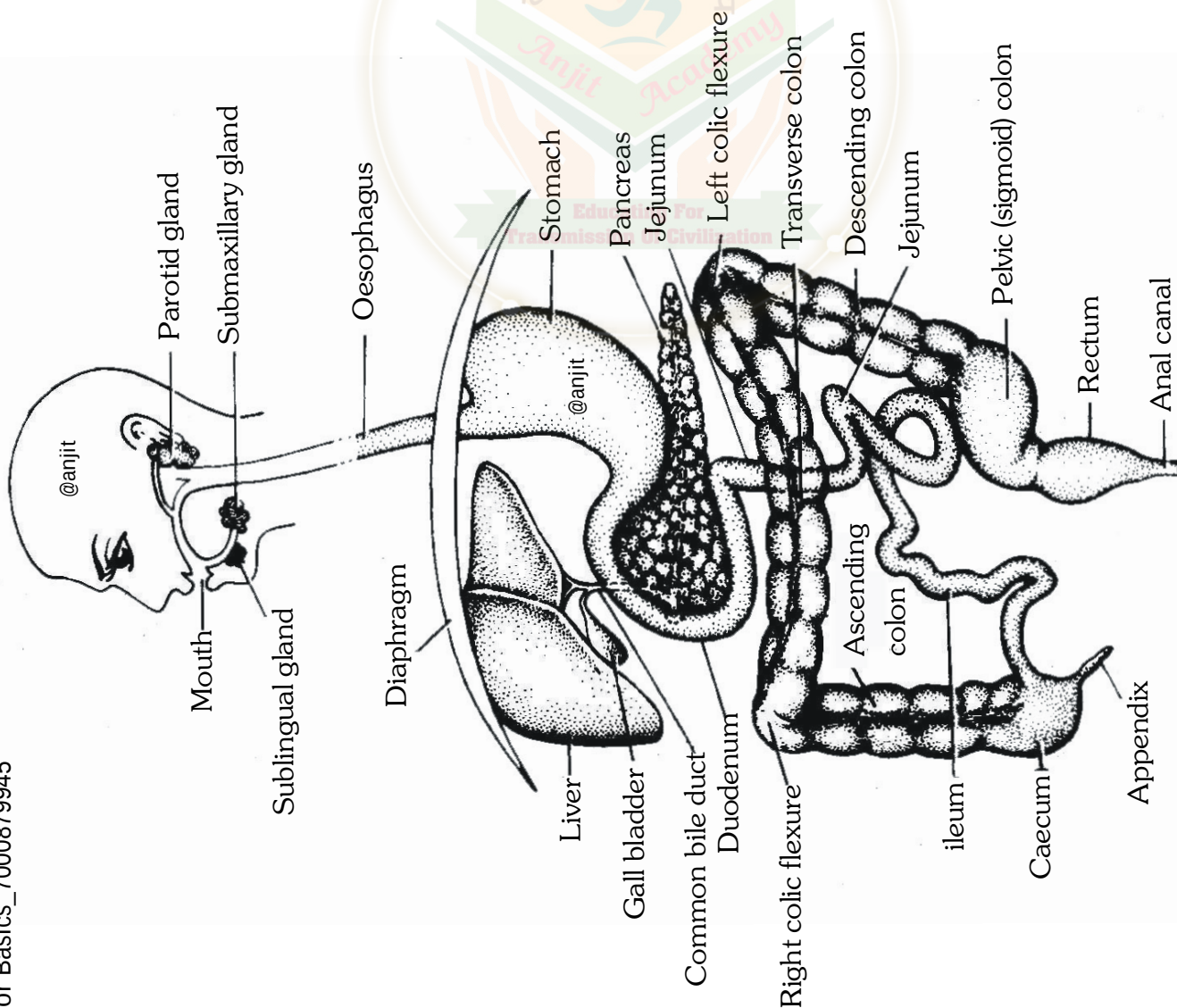
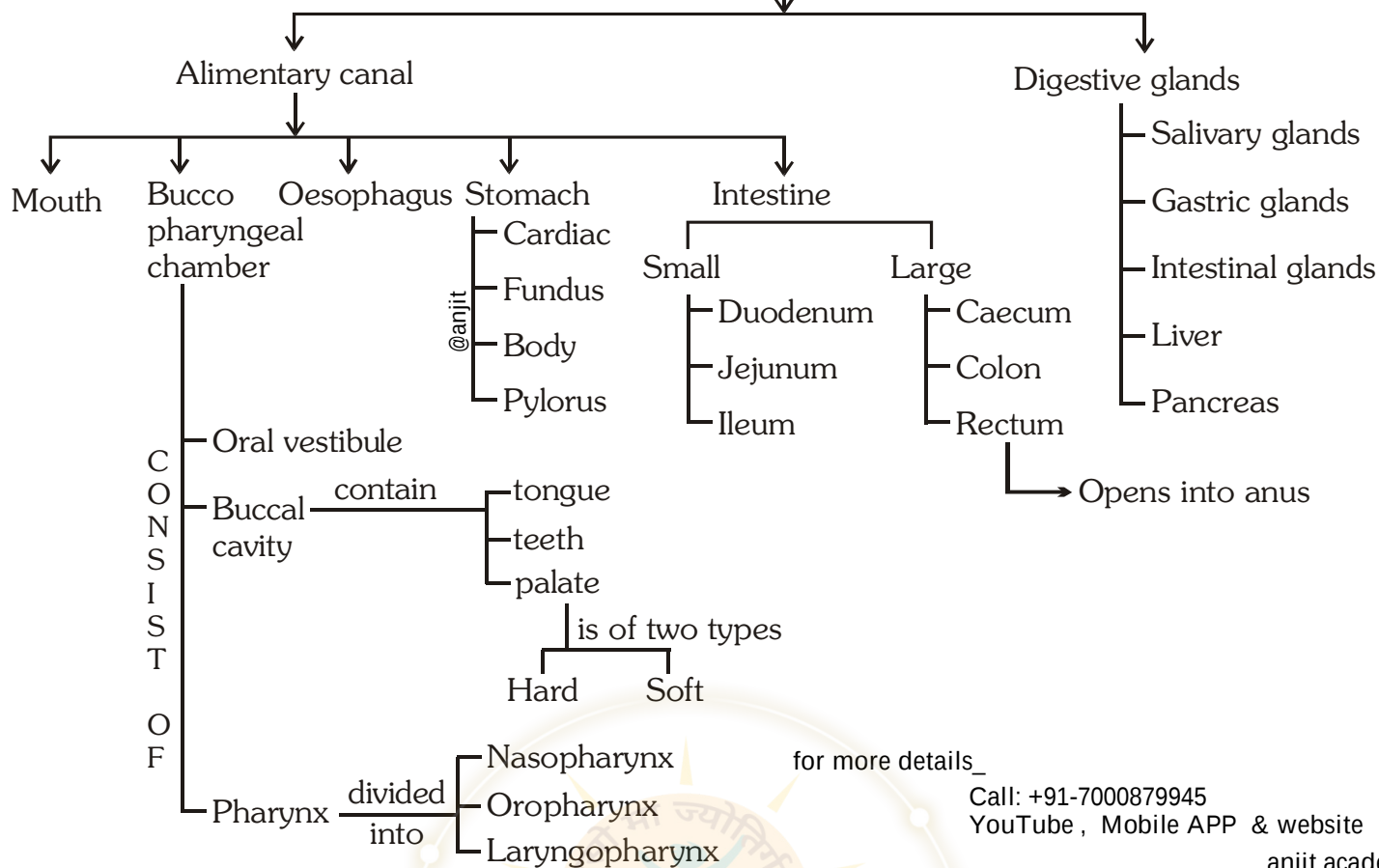
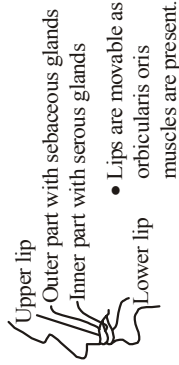


Human digestive system



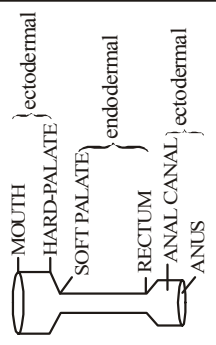
Digestive tract of Human

MOUTH is a transverse slit like aperture guarded by lips in front.



- Lips are movable as orbicularis oris muscles are present.
- Lips are immovable in WHALE and DUCK BILLED PLATYPUS

ORIGIN OF ALIMENTARY CANAL



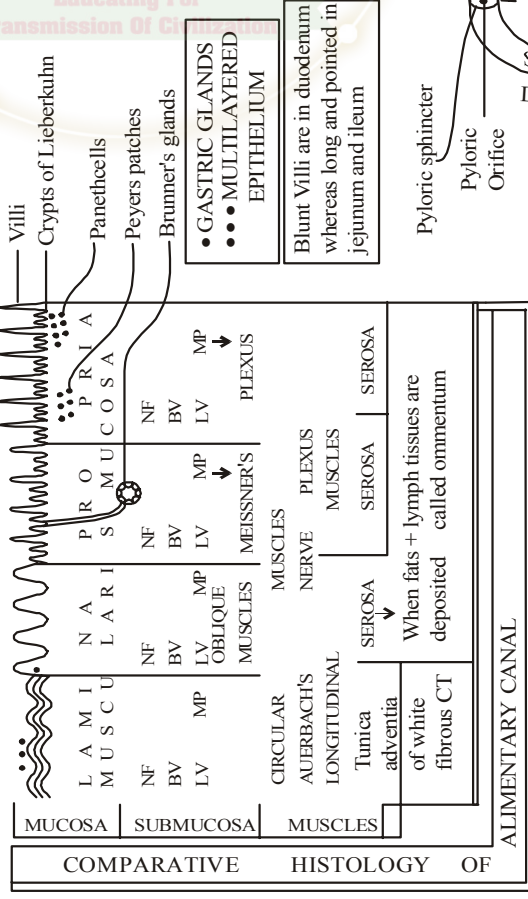
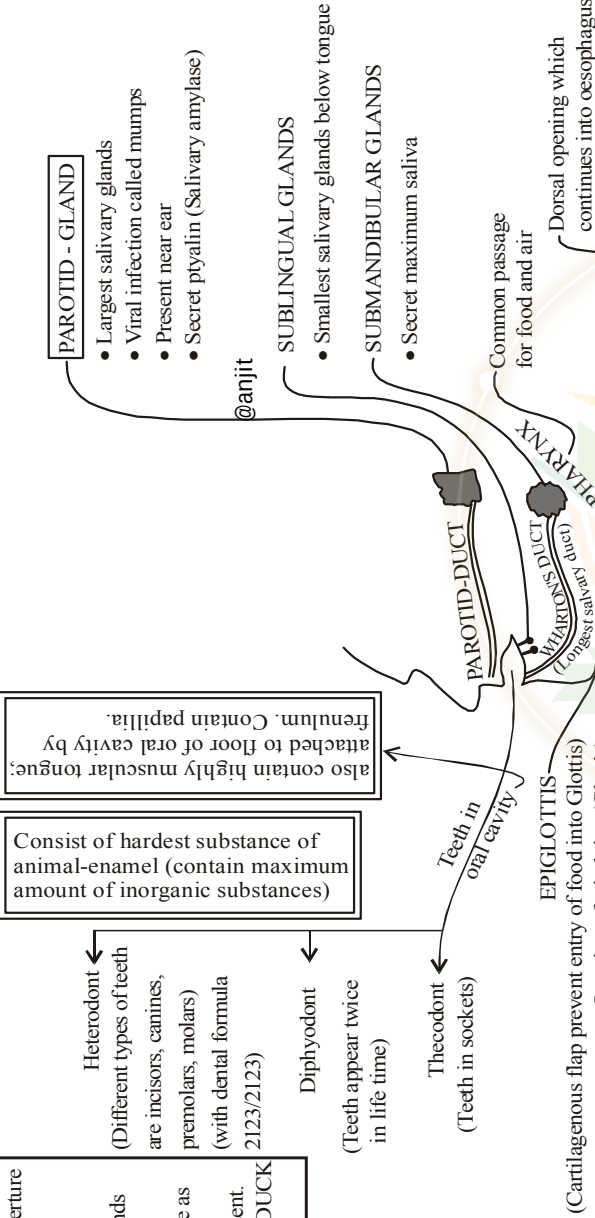
Heterodont
(Different types of teeth are incisors, canines, premolars, molars) (with dental formula 2123/2123)

Diphyodont
(Teeth appear twice in life time)

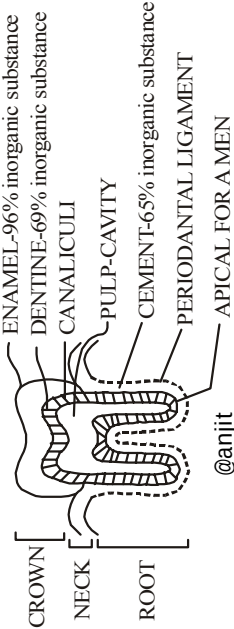
Thecodont
(Teeth in sockets)

Consist of hardest substance of animal-enamel (contain maximum amount of inorganic substances)

also contain highly muscular tongue; attached to floor of oral cavity by frenulum. Contain papillia.



STRUCTURE OF TOOTH :-



SALIVARY - GLAND

Secrete Saliva which contain - 99.5% water and 0.5% electrolytes + other substances

Lysozyme
Thiocyanate
Glycoprotein mucin-lubricate food particles
Salivary amylase

STARCH (30%)

Maltose + dextrin

SALIVA + FOOD = BOLUS

- Ptyalin is not present in saliva of rabbit because its food mainly contain cellulose
- Ptyalin is not present in carnivores as their food mainly contain protein

GASTRIC JUICE

Consists of 99.5% water + 0.2% to 0.3% HCl + rest other (enzymes, hormones, mucus)

Three phases of release of Gastric juice are :-

- Cephalic phase - Parasympathetic nerves ↑ secretion of Gastric juice and sympathetic nerves ↓ secretion of gastric juice. Secretion of gastric juice is mediated by X pair of Cranial nerves
- Gastric phase
- Intestinal phase

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