

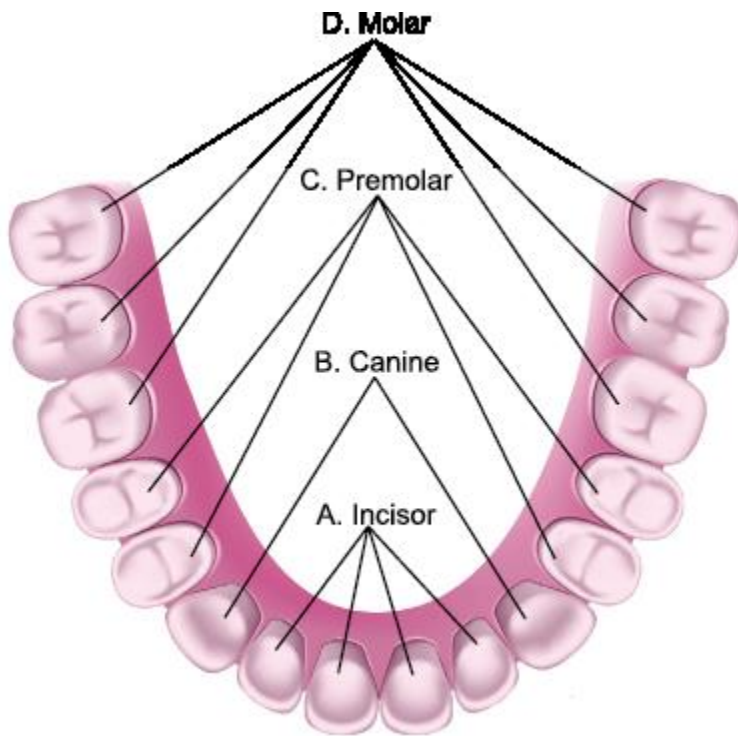
Long Answer Questions

Q.1. Draw a diagram of the buccal cavity and label the given types of teeth.

- (a) The cutting and biting teeth as 'A'**
- (b) The piercing and tearing teeth as 'B'**
- (c) The grinding and chewing teeth as 'C'**
- (d) The grinding teeth present only in adults as 'D'**

[NCERT Exemplar]

Ans.



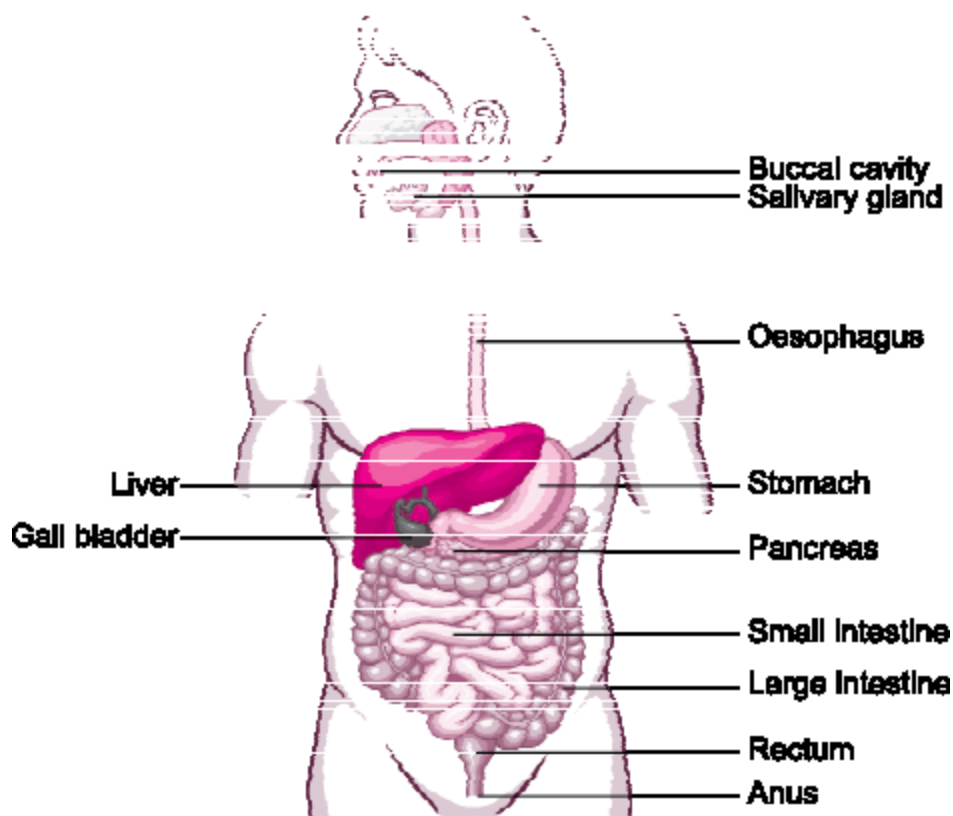
Q.2. (a) Draw a labelled diagram of the digestive system.

(b) Identify the following parts in the human body.

- The largest gland in our body.
- The organ where protein digestion starts.
- The organ that releases digestive juice into the small intestine.
- The organ where bile juice gets stored.

[NCERT Exemplar]

Ans. (a)



(b)

(i) Liver

(ii) Stomach

(iii) Pancreas

(iv) Gall bladder

Q.3. Distinguish between the following.

Q. Milk teeth and Permanent teeth.

Ans.

S.No	Milk teeth	Permanent teeth
(i)	These are first set of teeth that grow during infancy	Milk teeth are replaced by a second set of teeth called permanent teeth.
(ii)	They fall off at the age of 6–8 years.	They are never replaced.

Q. Ingestion and Egestion

Ans.

S.No	Ingestion	Egestion
(i)	The process of taking in of food inside the body	The process of throwing out of undigested food materials from the body.
(ii)	It occurs through mouth.	It occurs through rectum.

Q.4. Write the function of the following:

Q. Tongue

Ans. Tongue: It moves the food around the mouth and mixes with saliva into a ball. It also helps in tasting the food.

Q. Stomach

Ans. Stomach: It secretes digestive secretions containing enzymes that digests the food.

Q. Small intestine

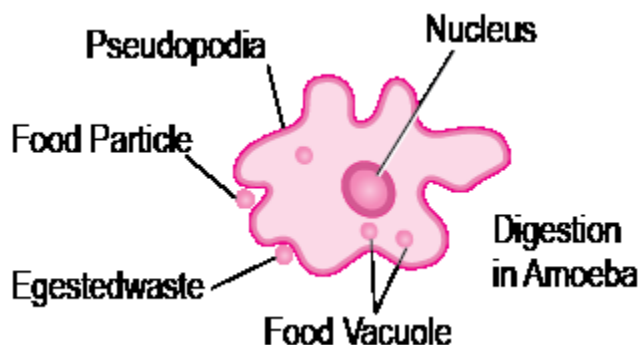
Ans. Small intestine: Digestion of food completes in the small intestine and the villi on its wall help in complete absorption of digested food.

Q. Large intestine

Ans. Large intestine: It absorbs water and salts from the undigested food material.

Q.5. Explain the digestion process in Amoeba with the help of diagram.

Ans. Amoeba is unicellular organisms, it captures food with the help of finger like projections called pseudopodia helps amoeba to engulf the food. Food now become trapped in food vacuole and with the help of digestive juices complex food converts into simple substances. Gradually the digested food is absorbed and undigested food is expelled outside by the vacuole.



Q.6. Give a brief account of process of digestion of different nutrients in human being.

Ans. Digestion in mouth

Starch $\xrightarrow{\text{Saliva}}$ Sugar

Digestion in stomach: Stomach secretes mucous, hydrochloric acid and digestive juices.

- Mucous protects the lining of the stomach.
- The acid kills the bacteria and provide acidic medium.
- Digestive juices breakdown the proteins into simpler substances.

Digestion in small intestine: Liver secretes bile juice, that helps in digestion of fats. Pancreas secretes pancreatic juice which acts on carbohydrates and proteins and converts into simpler form.

Intestinal juice completes the digestion of all components of food. Such as:

Carbohydrates \rightarrow Glucose Fats \rightarrow Fatty acids and glycerol Proteins \rightarrow Amino acids