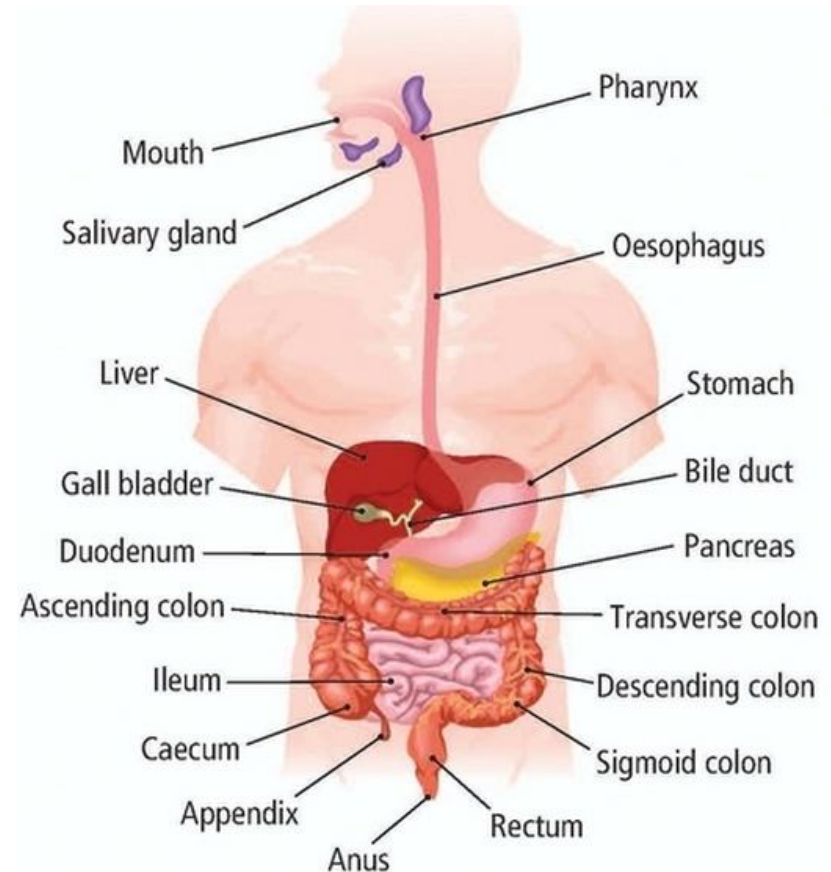


CASE STUDY QUESTION 27

Read the following and answer any four questions from (i) to (v)

In human being, the holozoic nutrition takes place in five steps:

- 1. Ingestion** - The process of taking food inside the body is called ingestion.
- 2. Digestion** - In digestion the ingested food is converted into simple form with the help of digestive enzymes.
- 3. Absorption** - In this stage the food digested in second step is absorbed into the cells of body.
- 4. Assimilation** - Assimilation is the process of utilizing the food absorbed in third step by various cells of the body.
- 5. Egestion** - Egestion is the final step of holozoic nutrition in which the undigested food is removed from the body.



(i) Which is the correct sequence of parts in human alimentary canal?

(a) Mouth → Stomach → Small intestine → Oesophagus → Large intestine

(b) Mouth → Oesophagus → Stomach → Large intestine → Small intestine

(c) Mouth → Stomach → Oesophagus → Small intestine → Large intestine

(d) Mouth → Oesophagus → Stomach → Small intestine → Large intestine

Ans: (d) Mouth → Oesophagus → Stomach → Sm

(ii) If salivary amylase is lacking in the saliva, which of in the mouth cavity will be affected?

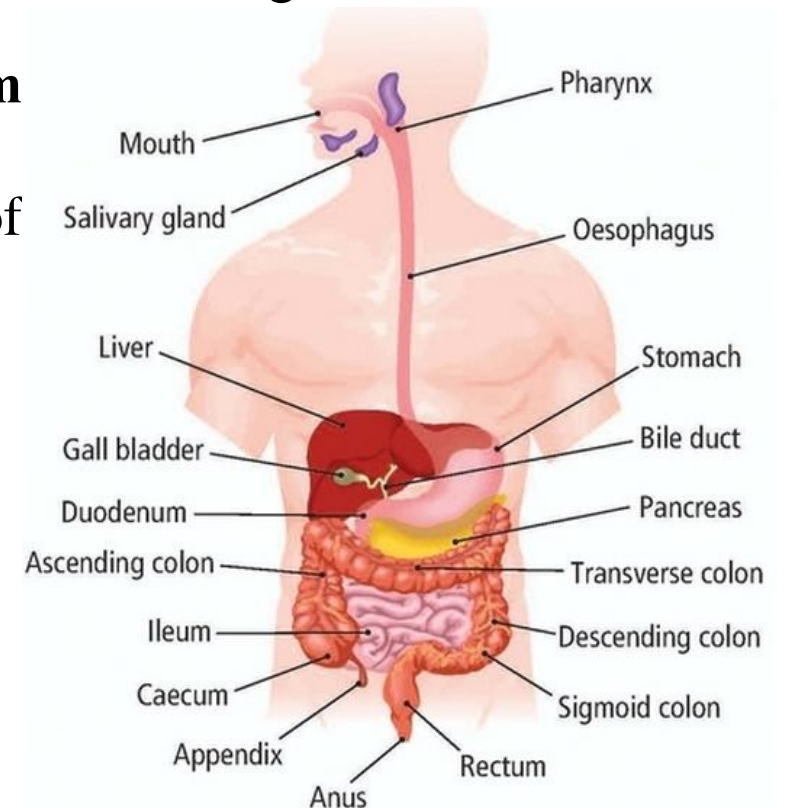
(a) Proteins breaking down into amino acids

(b) Starch breaking down into sugars

(c) Fats breaking down into fatty acids and glycerol

(d) Absorption of vitamins

Ans: (b) Starch breaking down into sugars



(iii) The inner lining of stomach is protected by one of the following from hydrochloric acid, choose the correct one.

(a) Pepsin (b) Mucus (c) Salivary amylase (d) Bile

Ans: (b) Mucus

(iv) Which part of alimentary canal receives bile from the liver?

(a) Stomach (b) Small intestine (c) Large intestine (d) Oesophagus

Ans: (b) Small intestine

- (v) Choose the function of the pancreatic juice from the following.
- (a) Trypsin digests proteins and lipase carbohydrates
 - (b) Trypsin digests emulsified fats and lipase proteins
 - (c) Trypsin and lipase digest fats
 - (d) Trypsin digests proteins and lipase digests emulsified fats droplets.

Ans: (d) Trypsin digests proteins and lipase digests emulsified fats droplets.