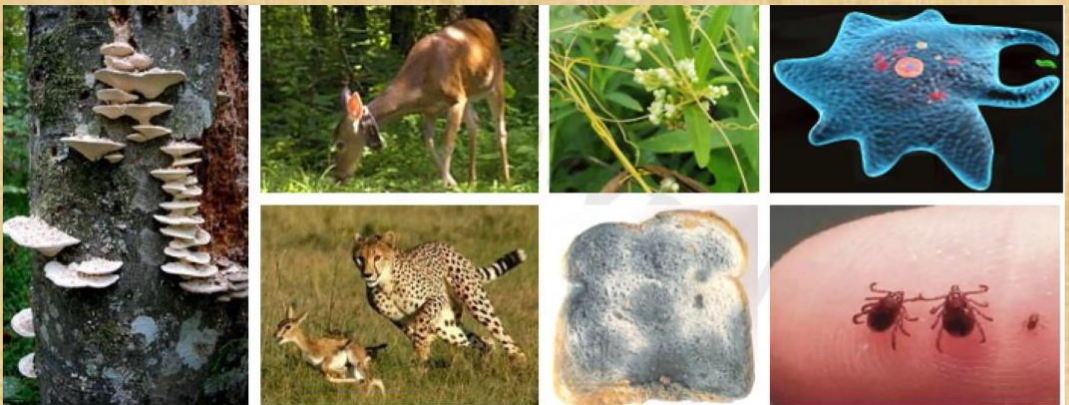


Chapter 6

LIFE PROCESSES

Nutrition in animals:



a) **Nutrition in amoeba:**

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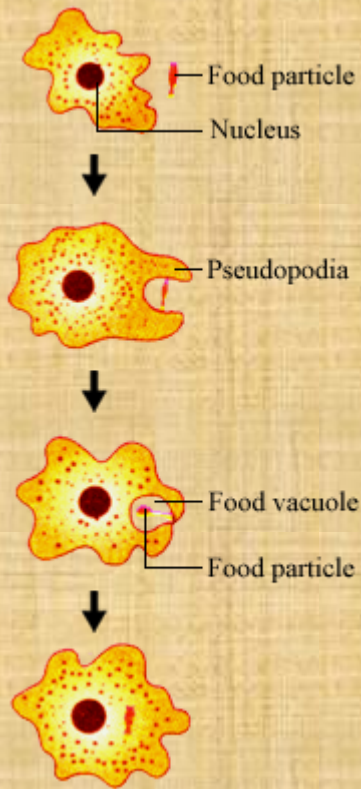
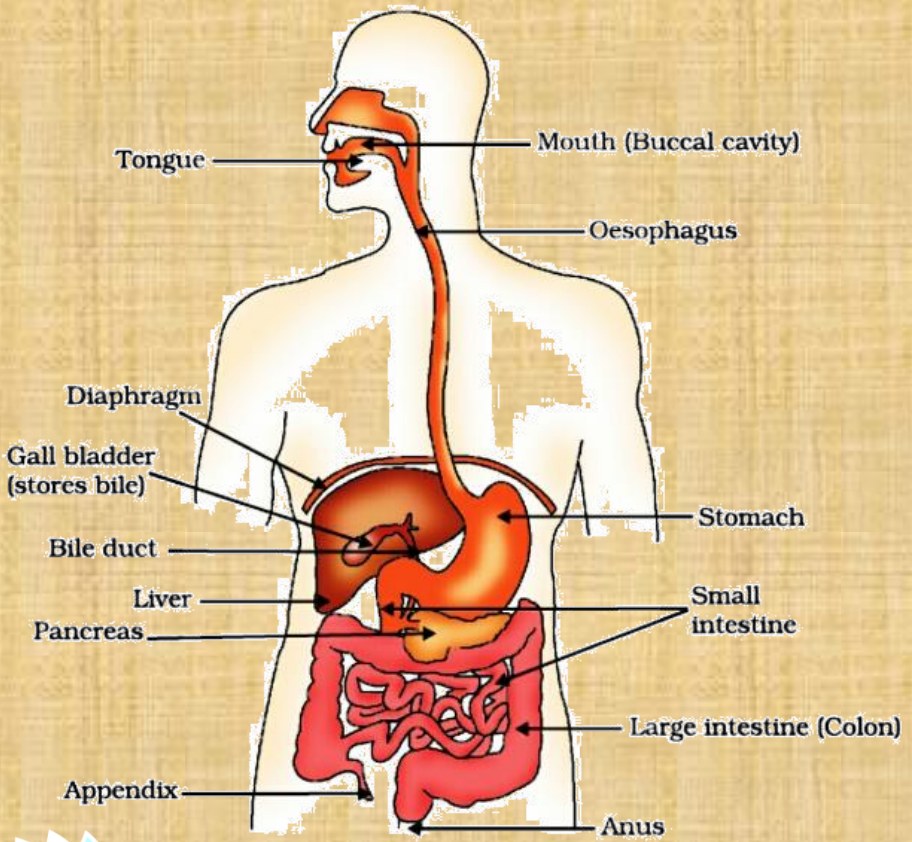


Fig. Nutrition in Amoeba

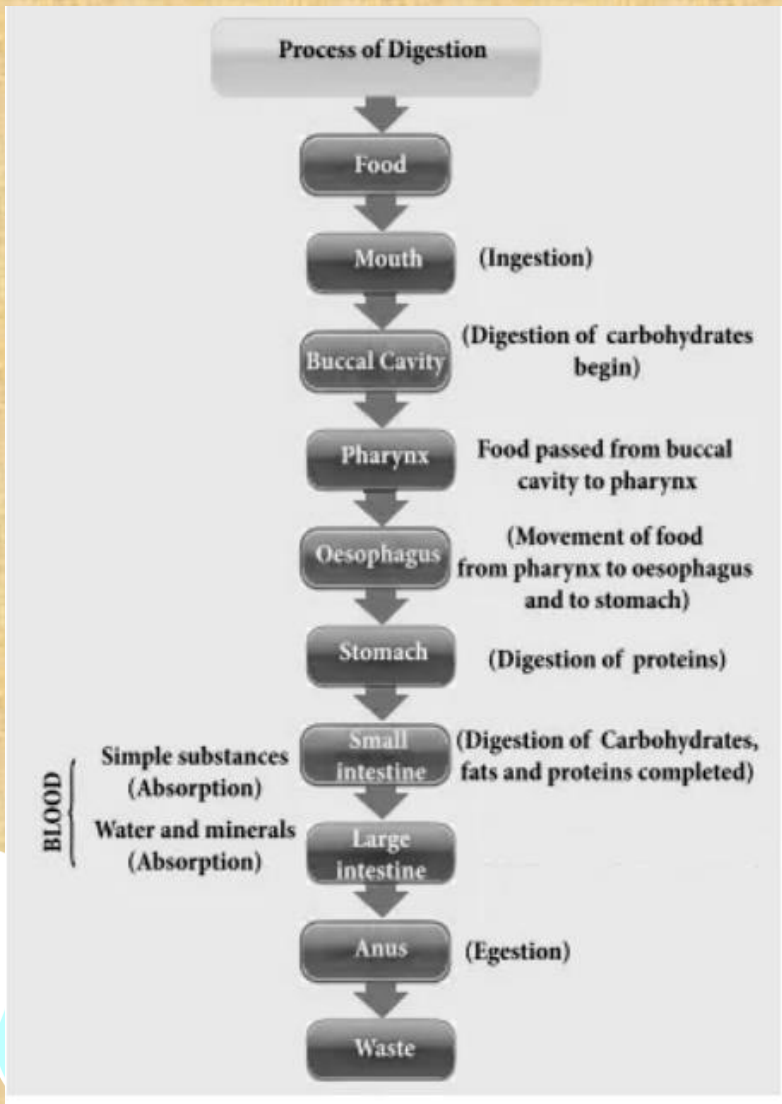
1. Amoeba is a unicellular animal living in water.
2. Takes up food by forming finger like projections called pseudopodia and forms a food vacuole.
3. Inside the food vacuole the food is digested and absorbed.
4. The undigested food is then sent out through the surface of the cell.

b) Nutrition in Human beings:



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Fig. Human alimentary canal



Nutrition in human beings takes place in the digestive system.

In the mouth: the food is broken down into smaller particles by the teeth and mixed with saliva from the salivary glands.

In the stomach: the gastric glands produce gastric juice which contains the enzyme pepsin, hydrochloric acid and mucous.

In the upper part of the small intestine called duodenum:

- The food is mixed with bile from liver and pancreatic juice from the pancreas.
- Bile breaks down fats into smaller globules.

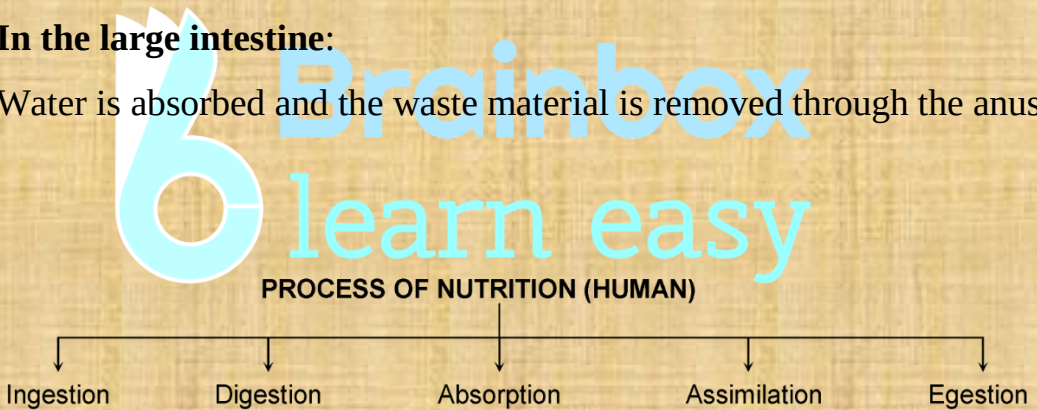
- Pancreatic juice contains the enzymes trypsin and lipase.
- Trypsin breaks down proteins and lipase breaks down fats.

In the small intestine:

1. The glands the walls of the small intestine produces intestinal juice.
2. The enzymes of the intestinal juice coverts carbohydrates into glucose, fats into fatty acids and glycerol and proteins into amino acids.
3. It helps to increase the surface area for the absorption of digested food.

In the large intestine:

Water is absorbed and the waste material is removed through the anus.



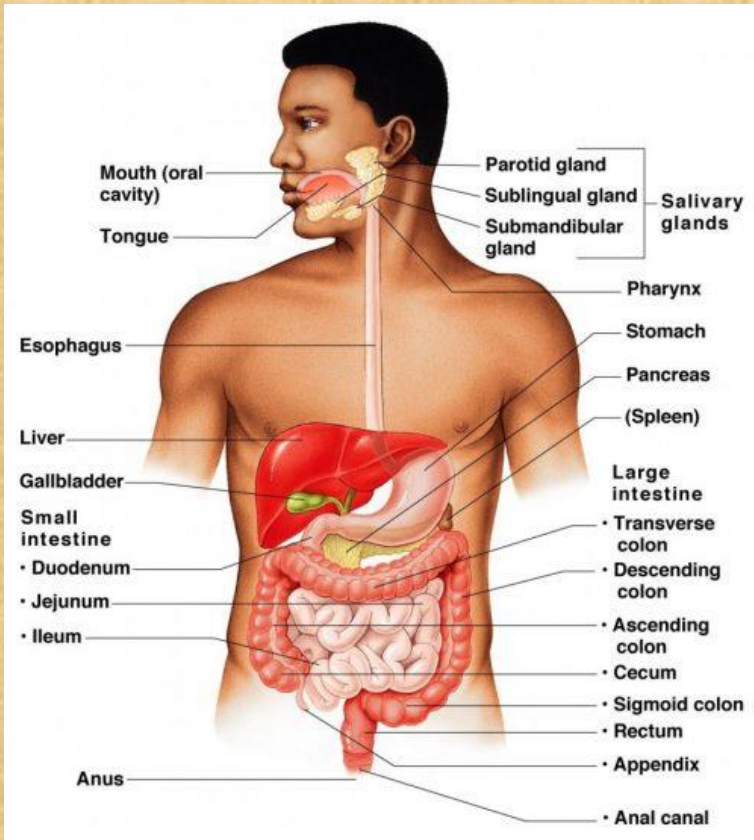


Fig. Process of Nutrition

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