

Assignment - 10 Class - VII

Subject - Science

Chapter - 2 (Nutrition in animals)

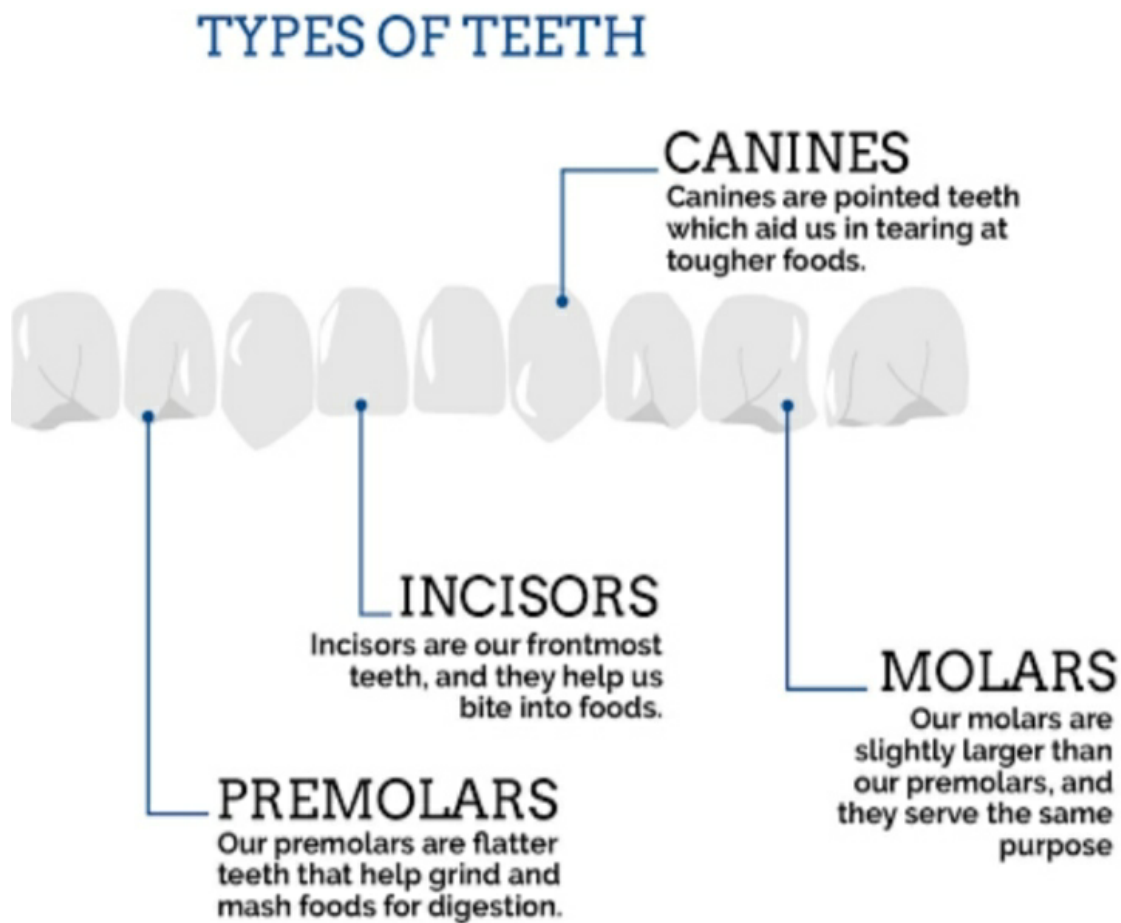
(E) Short questions:

11. Different types of teeth have different functions , but they all work together to chew food

(a) discuss the function of each type of teeth

(b) what do we learn from our teeth that have different functions?

Ans. (a)



(b) There are four different types of teeth present in buccal cavity and all the teeth perform different function. We learn from our teeth that staying together we can

perform work more efficiently.

(G) Long questions:

1. Briefly describe nutrition in amoeba with the help of labeled diagram.

Ans.

NUTRITION IN AMOEBA

Amoeba is a microscopic, single-celled organism found in ponds, pools and ditches. It constantly changes its shape by pushing out one or more finger-like projections called **pseudopodia** or **false feet** that are meant for locomotion and capturing of food. All the processes of nutrition are performed by the single cell of *Amoeba*.

1. Ingestion

Amoeba eats tiny microscopic plants and animals as food, that float on water in which it lives. When an *Amoeba* finds a suitable organism, it pushes out two pseudopodia around the organism. Gradually, the tips of the pseudopodia fuse with each other.

As a result, the food is engulfed along with a little surrounding water to form a **food vacuole** inside it [Fig. 2.10 (a)].

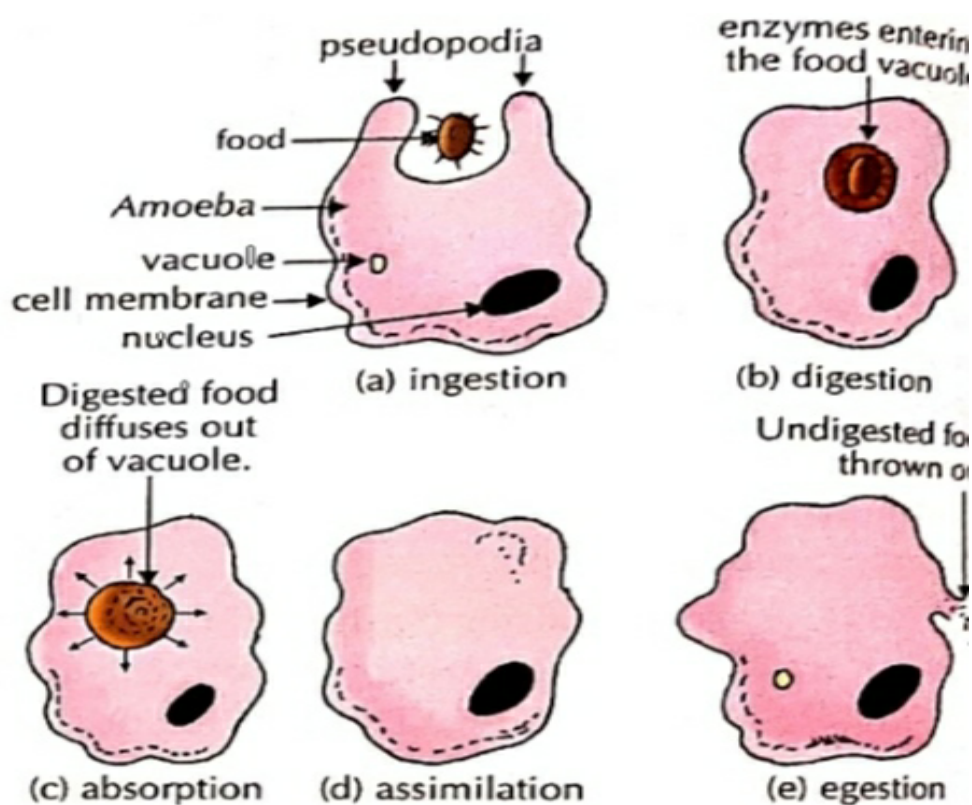


Fig. 2.10 Different stages of nutrition in *Amoeba*

2. Digestion

The enzymes from the surrounding cytoplasm enter the food vacuole and breakdown the food into simple, soluble substances [Fig. 2.10 (b)].

3. Absorption

The digested food present in the food vacuole is absorbed directly into the cytoplasm [Fig. 2.10 (c)]

4. Assimilation

The digested food absorbed by the cytoplasm is stored or utilised for its growth, development, multiplication and release of energy [Fig. 2.10 (d)].

