UPAAA 2025

LIFE PROCESSES

Biology

Lecture

03

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Topics to be covered

- 1 Types of heterotrophic Nutrition
- 2 Nutrition in Amoeba and Paramecium
- 2 Steps of Holozoic Nutrition





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# Notes -> Theory.

# Activities -> recorded Vidoes
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Question of the Day



Can plants perform photosynthesis under artificial light?





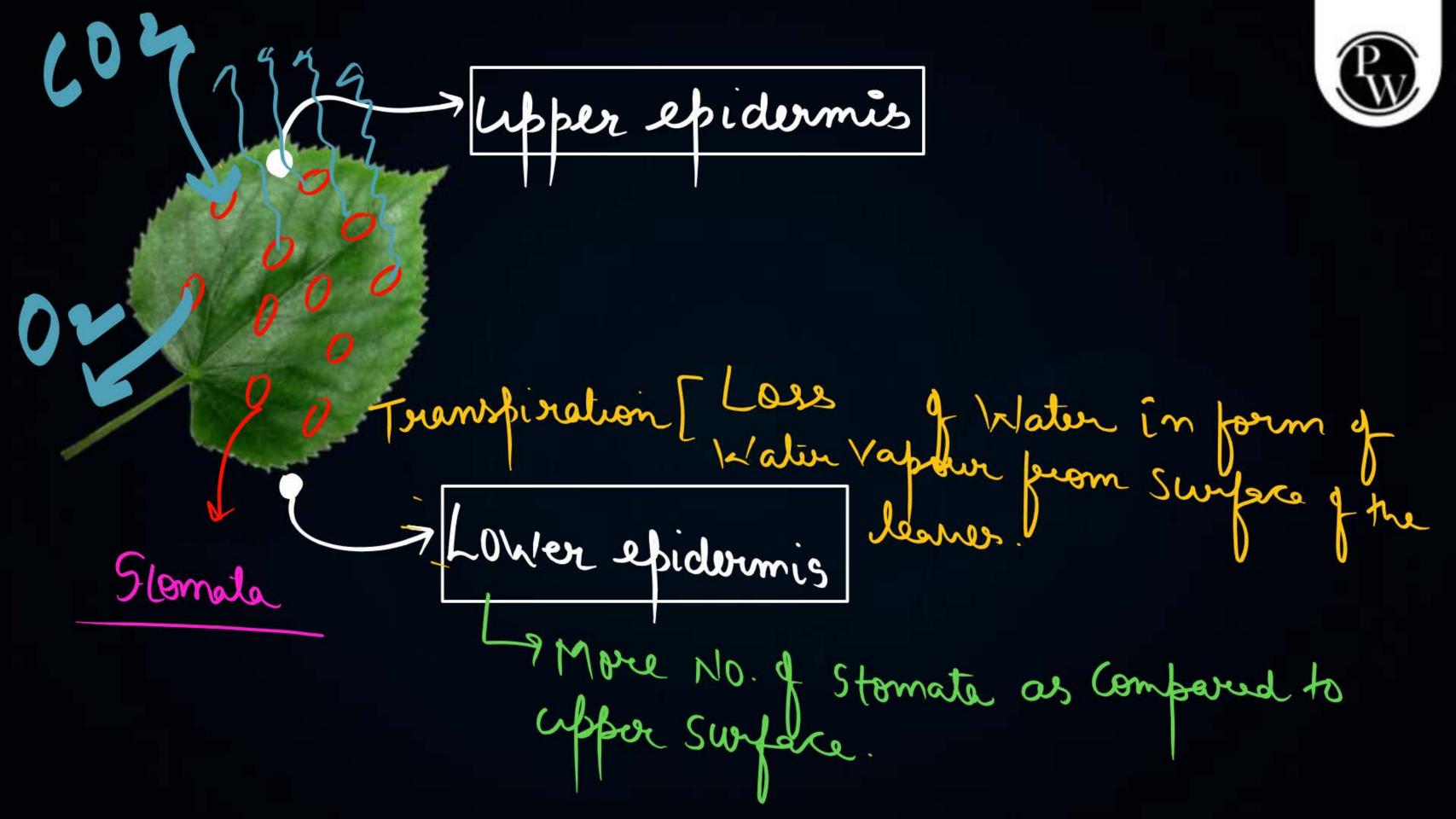
-> Bulbs
Tube light

QUESTION



Stomatal pore opens when water _____

- A Moves out of the guard cell
- Moves inside the guard cell
- Opening and closing of stomata is independent of guard cells
- D None of the above



Nutrition



Autoboohic

Heterotrophic

A type of nutrition in helhich organisms are dependent on other organisms for food.



Heterotrophic Nutrition and its types



- 1) Holozoic Nutrition
- 2) Sabratraphic/Sabraphytic Nutrition
- 3) Parasitic Nutrition



Holozoic Nutrition





Omni vorres



Carnivores



Herbivores

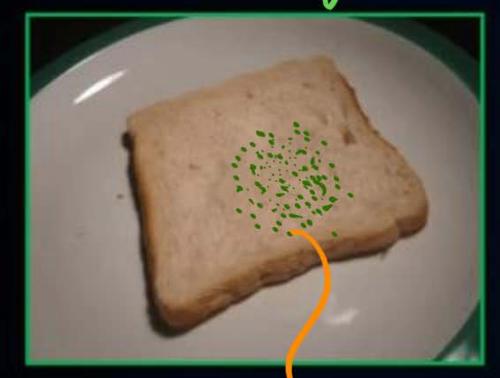


Saprophytic Nutrition

Decomposer



Jeed on dead & decaying matter







7 Rhizopus [Bread Mould] fungi.

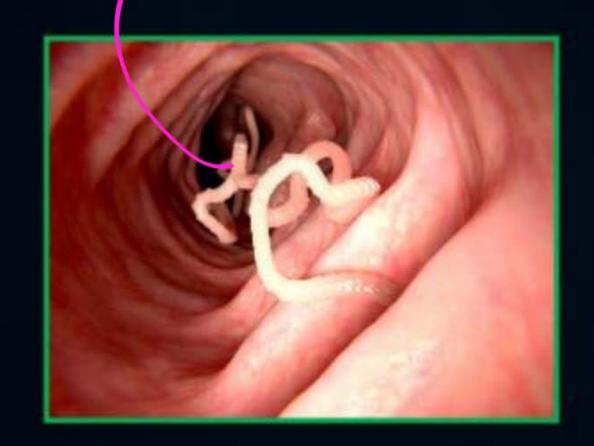


Parasitic Nutrition











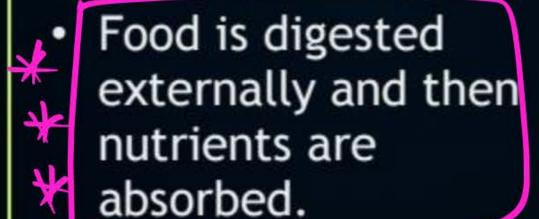
Ticks



- Organism feed by ingesting whole food material.
- Food is digested and absorbed inside the animal body.

Saprotrophic Nutrition

 Organism feed on dead and decaying matter



Parasitic Nutrition



- Organism derive nutrition from plants or animals without killing them.
- Obtain nutrition by living on or inside the host.

Holozoic Nutrition

Examples:

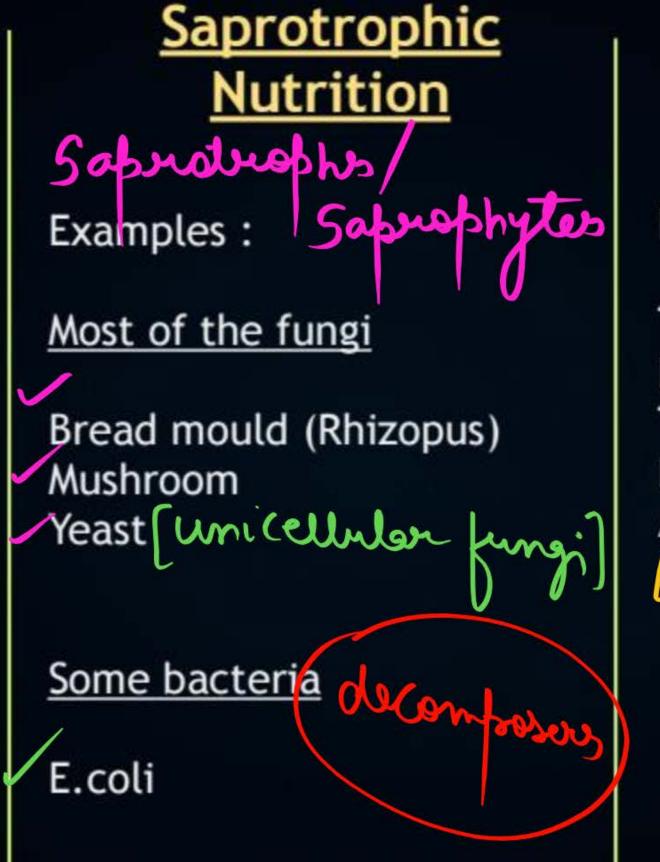
ANIMALS

Herbivores
Carnivores
Omnivores

Unicellular organisms

Being

Amoeba Paramecium



Parasitic Nutrition



Examples:

Tapeworm
Lice
Ticks
Leech
Ascaris
Liver Luke

Parasitic plant

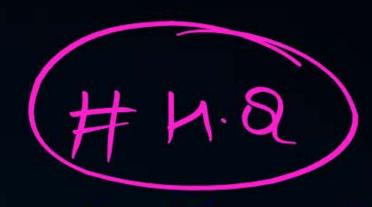




Chlorophyl absent

Can't perform shotosynthe Sis

#Ch





Which of the following is an example of parasitic plant?

- A Money plant
- B Insectivorous plant
- C Cuscuta
- All of the above

5 aprobrabhic Nutrition



Which of the following organism digests its food externally?

- A Tapeworm
- B Human being
- Bread mould & Rhizopus
- Green plants

QUESTION





What type of nutrition is shown by amoeba, mushroom and cuscuta?

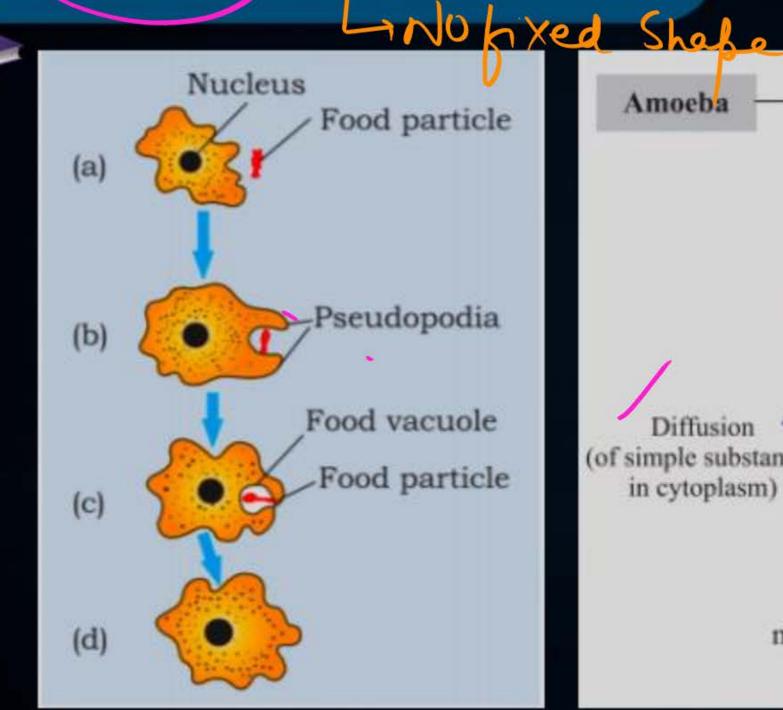
A Saprophytic, parasitic and holozoic

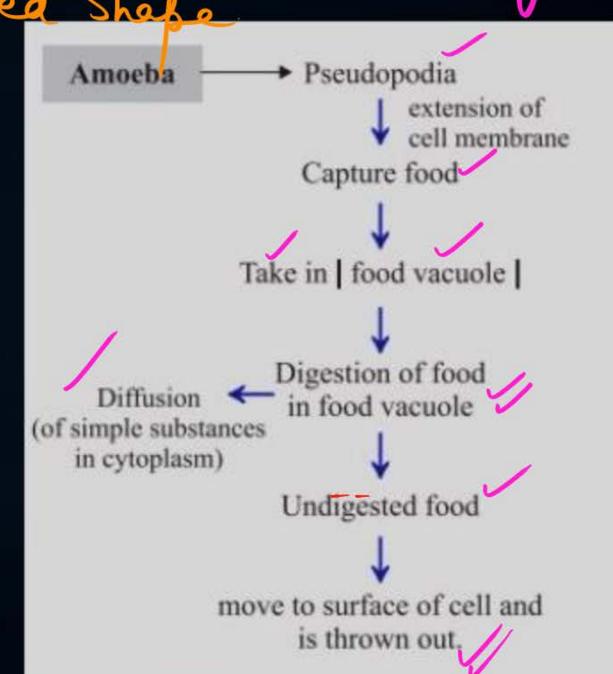
- B Parasitic, holozoic and saprophytic
- Holozoic, saprophytic, parasitic
- D Holozoic, parasitic and saprophytic



Nutrition in Amoeba - uni- culular organism









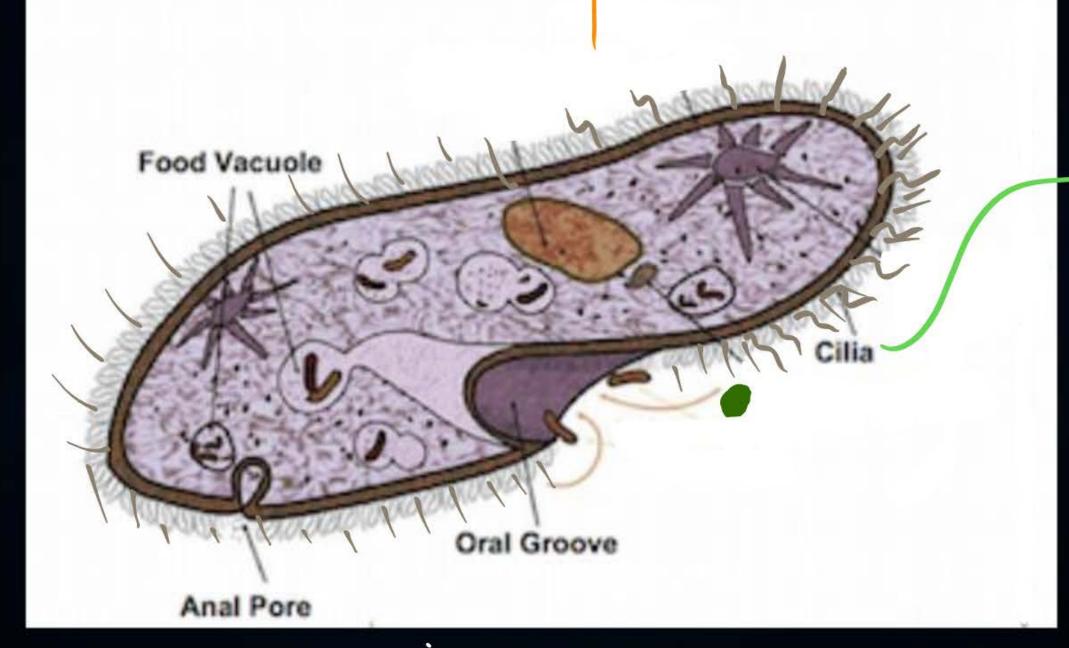
Nutrition in Paramecium

-> Holozoic Mutintion



- uni-Cellular

Ly fixed Shape



Hain-Like Structures



Homework



Read NEERT-ROS



Question of the Day



Total length of Small intestine



Joke/Meme of the Day



Herbivores



Carnivores



Omnivores



