

Exercise :-

1) Write the difference between plant and animal cells.

Plant cell	Animal cell
* Has a cell wall	* Cell wall is absent
* Large vacuole	* Small vacuole
* Have plastids	* Plastids are absent
* Centrosome absent	* Has centrosomes
* Lysosome are rare	* Lysosome is present

2) What would happen if cell membrane ruptures or breaks down?

- ans) * If cell membrane ruptures, there would be nothing to protect the organelles of cell.
- * Any kind of substances can enter the cell organelles that could cause damage.
 - * There would be no protection for the cell.

3) What would happen if the cell membrane ruptures?

Ans) If cell membrane ruptures, the cell will die. It regulates the movement of substances in and out of the cell by diffusion. Therefore, if plasma membrane ruptures, the cell may be damaged as its organelles may go out or unwanted substances can come inside.

4) What would happen if there was no Golgi Body?

Ans) If there was no golgi body in the cell then :-

- * There won't be any lysosomes
- * The cell won't be able to digest the food.
- * The transport of materials won't be done.

5) Which organelle is known as the powerhouse of cell. Why?

Ans) * Mitochondria is known as the powerhouse of the cell.

- * It is known so as it provides the energy required by cell ~~for~~ by releasing ATP.

6) Where do the lipids and proteins constituting the cell membrane get synthesized?

Ans) * Lipids and proteins constituting the cell membrane get synthesized in Endoplasmic Reticulum.

* SER - Lipids

* RER (Ribosomes) - Proteins

7) How does Amoeba obtain its food?

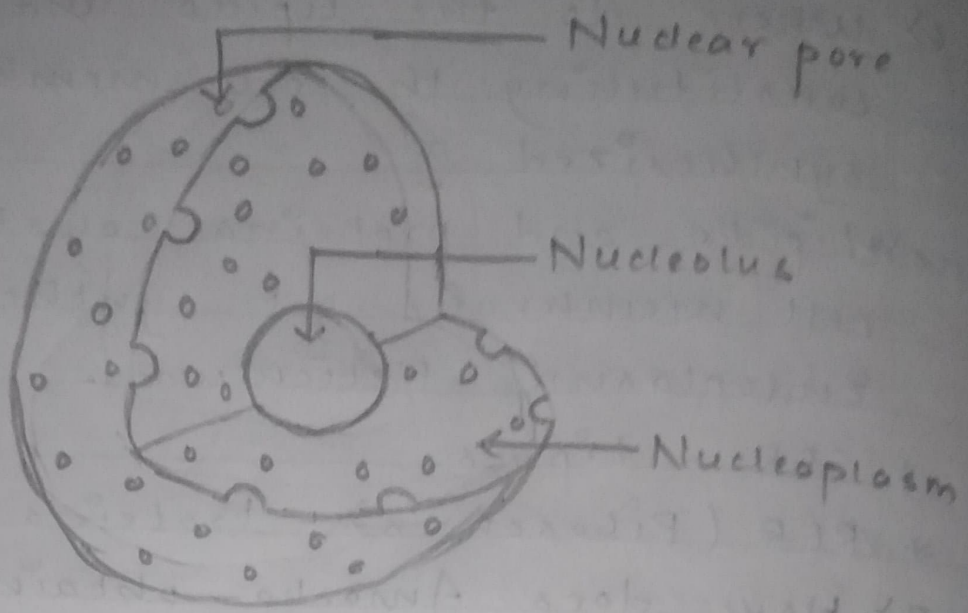
Ans) * Amoeba obtains food by process of endocytosis.

* The cell membrane is flexible that helps to engulf the food.

8) What is osmosis?

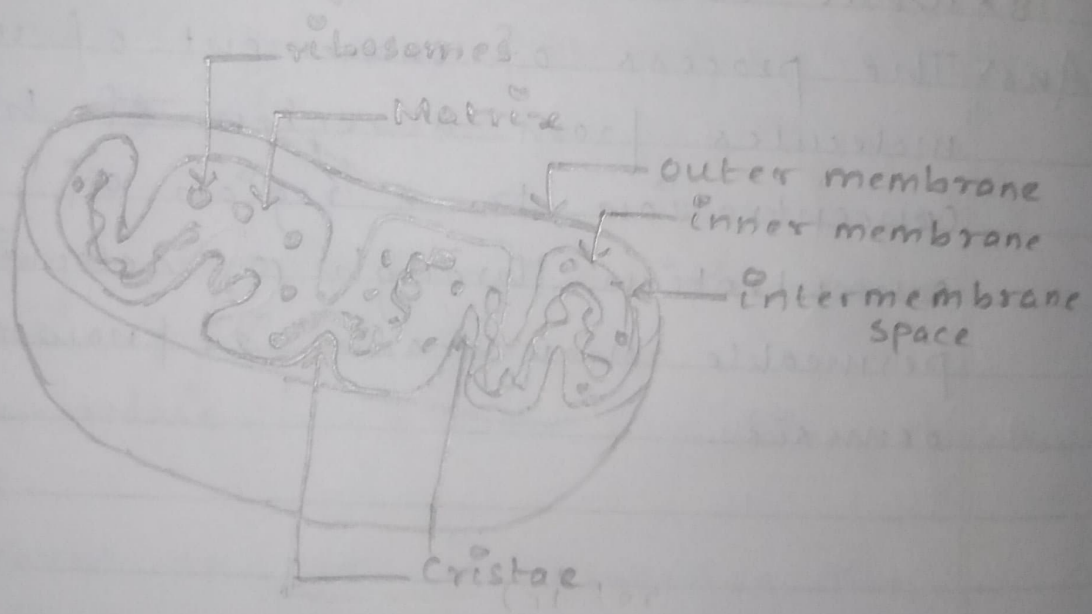
Ans) The process of movement of water molecules from a region of higher concentration to a region of lower concentration through a selective permeable membrane is known as osmosis.

• Nucleus



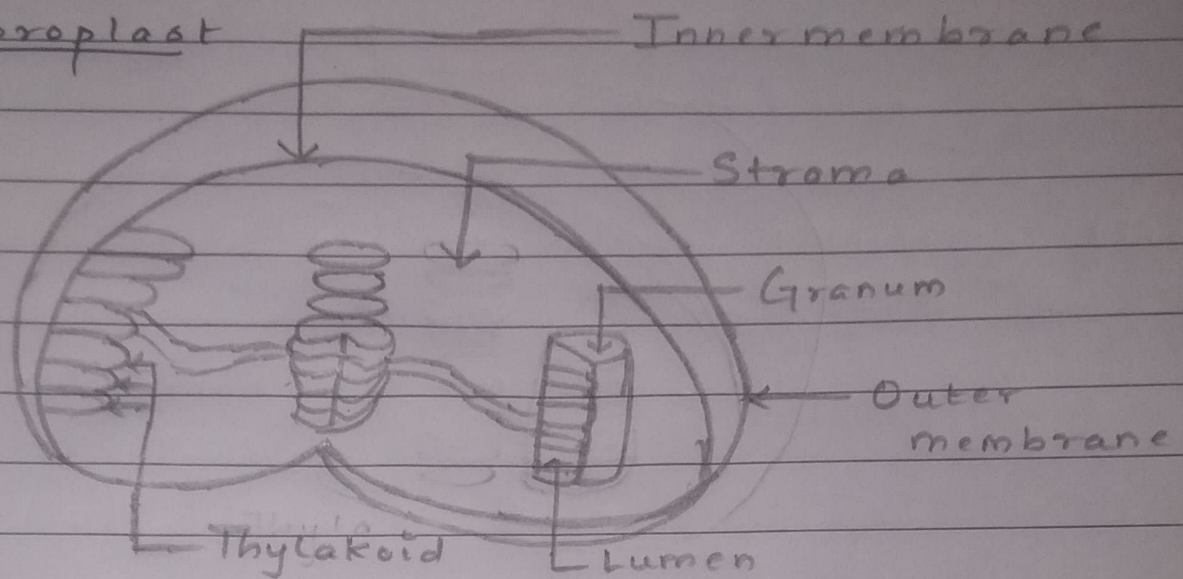
Structure of Nucleus

• Mitochondria



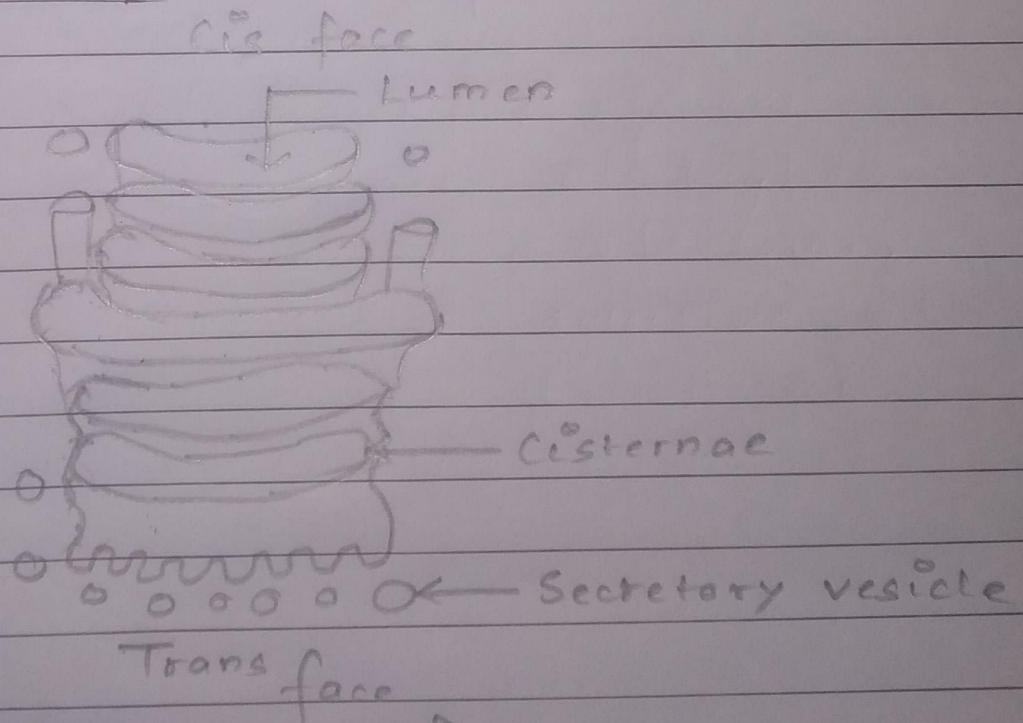
Structure of Mitochondria

• Chloroplast



Structure of Chloroplast

• Golgi Apparatus



Structure of Golgi Apparatus