

Science

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(Chapter – 5) (The Fundamental Unit of Life) (Exercises)

(Class – IX)

Question 5:

Which organelle is known as the powerhouse of the cell? Why?

Answer 5:

Mitochondria are known as the powerhouse of the cell because they contain enzymes that are needed for stepwise oxidation of food stuffs (carbohydrate, fats and lipids) present in the cells to CO_2 and water. Oxidation of food releases energy which is used to form high-energy ATP (*adenosine triphosphate*) molecules. ATP is known as Energy Currency of the cell and it is used as cellular fuel. Energy stored in ATP is used to bring about energy requiring activities of the cell such as photosynthesis, protein synthesis and muscle contraction.

Question 6:

Where do the lipids and proteins constituting the cell membrane get synthesised?

Answer 6:

Rough Endoplasmic Reticulum (RER) - synthesizes proteins constituting cell membrane.

Smooth Endoplasmic Reticulum (SER) - synthesizes lipids constituting cell membrane.

Question 7:

How does *Amoeba* obtain its food?

Answer 7:

Amoeba has flexible cell membrane. It enables amoeba to engulf its food by the process called *endocytosis*.

Question 8:

What is osmosis?

Answer 8:

The diffusion of water or solvent through a semi-permeable membrane from a solution of lower concentration of solutes to a solution of higher concentration of solutes, to which the membrane is relatively impermeable, is called osmosis.

Question 9:

Carry out the following osmosis experiment:

Take four peeled potato halves and scoops each one out to make potato cups. One of these potato cups should be made from a boiled potato. Put each potato cup in a trough containing water. Now,

- Keep cup A empty
- Put one teaspoon sugar in cup B
- Put one teaspoon salt in cup C
- Put one teaspoon sugar in the boiled potato cup D.

Keep these for two hours. Then observe the four potato cups and answer the following:

- Explain why water gathers in the hollowed portion of B and C.
- Why is potato A necessary for this experiment?
- Explain why water does not gather in the hollowed out portions of A and D.

Answer 9:

Substances move from areas of high concentration to areas of low concentration through semipermeable membrane. This process is called osmosis.

(i) Cups B and C contain sugar and salt solutions. It means that the concentration of water inside the cups are lesser than that outside. Hence, water gathers in cup B and C due to osmosis.

Investment Science Chapter 5

Camilla Rothe



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