

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.

- 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

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Table of Contents Investment Science Chapter 5

1. Understanding the eBook Investment Science Chapter 5
 - The Rise of Digital Reading Investment Science Chapter 5
 - Advantages of eBooks Over Traditional Books
2. Identifying Investment Science Chapter 5
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Investment Science Chapter 5
 - User-Friendly Interface
4. Exploring eBook Recommendations from Investment Science Chapter 5
 - Personalized Recommendations
 - Investment Science Chapter 5 User Reviews and Ratings
 - Investment Science Chapter 5 and Bestseller Lists
5. Accessing Investment Science Chapter 5 Free and Paid eBooks
 - Investment Science Chapter 5 Public Domain eBooks
 - Investment Science Chapter 5 eBook Subscription Services
 - Investment Science Chapter 5 Budget-Friendly Options

6. Navigating Investment Science Chapter 5 eBook Formats
 - ePub, PDF, MOBI, and More
 - Investment Science Chapter 5 Compatibility with Devices
 - Investment Science Chapter 5 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Investment Science Chapter 5
 - Highlighting and Note-Taking Investment Science Chapter 5
 - Interactive Elements Investment Science Chapter 5
8. Staying Engaged with Investment Science Chapter 5
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Investment Science Chapter 5
9. Balancing eBooks and Physical Books Investment Science Chapter 5
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Investment Science Chapter 5
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Investment Science Chapter 5
 - Setting Reading Goals Investment Science Chapter 5
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Investment Science Chapter 5
 - Fact-Checking eBook Content of Investment Science Chapter 5
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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