

# 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  $\text{CO}_2$  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 in 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,

- (a) Keep cup A empty
- (b) Put one teaspoon sugar in cup B
- (c) Put one teaspoon salt in cup C
- (d) 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:

(i) Explain why water gathers in the hollowed portion of B and C.

(ii) Why is potato A necessary for this experiment?

(iii) 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.

# Bc Science 9 Chapter 5 Test

**Mark Steyvers**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## Bc Science 9 Chapter 5 Test:

*Supplementary Mutagenicity Tests* United Kingdom Environmental Mutagen Society. Sub-Committee on Guidelines for Mutagenicity Testing,1993-11-11 Originally published in 1993 this volume describes supplementary tests used to assess risks of in vitro mutagenicity when basic safety tests were inconclusive      **Stone** Mick R. Smith,1999      **Algebra** ,2002

**Glencoe Mathematics** William Collins,1999      *Adhesives Handbook* J. Shields,2013-09-17 Adhesives handbook Third edition is a guidebook that covers the basic concepts of adhesive bonding process The book emphasizes products based on advance synthetic polymers The coverage of the text includes design of the adhesive joint surface preparation of bonding materials selection of a suitable adhesive and the specification of processing and testing techniques The book will be of great use to design engineers and technicians involved in the materials bonding process in their respective works      **Linear**

**Algebra** Klaus Jänich,1994-09-02 This book covers the material of an introductory course in linear algebra Topics include sets and maps vector spaces bases linear maps matrices determinants systems of linear equations Euclidean spaces eigenvalues and eigenvectors diagonalization of self adjoint operators and classification of matrices It contains multiple choice tests with commented answers      **Resources in Education** ,1985-06      **The Aerologist** ,1932      Fundamentals of Ecotoxicology, Third Edition Michael C. Newman,2010 Fully revised to reflect new developments the new edition of this renowned text details key environmental contaminants explores their gate and cycling in the biosphere and discusses bioaccumulation and the effects of contaminants at increasing levels of ecological organization It also covers regulatory aspects of the field and discusses key U S European and Chinese legislation and policy It provides new study questions a detailed glossary and new international case studies by leading world known experts This text      **Urban Land Economics** Michael Arthur Goldberg,Peter Chinloy,1984      Science in Your World: Teacher edition Jay K. Hackett,1991

Mathematics GLENCOE,1995      **The United States Catalog** Eleanor E. Hawkins,1921      *Cana of Galilee, Damascus, Ephesus, Corinth, Thessalonica, Athens, Rome, Etc. References, Explanatory Notes, and Tabulated Statistics* by John Brown. *The Self-interpreting Bible* ,1896      The Scofield Reference Bible Cyrus Ingerson Scofield,1917      *The Watchman* ,1888

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