

SEMESTER—ONE**BIOLOGY**

Class X

Student Name:

Date:

Period—I : Topic 1**INTRODUCTION TO BIOLOGY AND ITS BRANCHES;
THE STUDY OF CELL AS THE BASIC UNIT OF LIFE,
AND MOVEMENT OF SUBSTANCES ACROSS CELL
MEMBRANE****Multiple Choice Questions**

Select and write one most appropriate option out of the four options given for each of the questions 1 – 5.

- Which of the following is the waste product of plants?
(a) Urea (b) Latex
(c) Uric acid (d) Acetic acid
- All living things are able to produce their own kind. This is called
(a) reproduction (b) excretion
(c) respiration (d) locomotion
- The term 'cell' was coined by
(a) Robert Brown (b) Robert Hooke
(c) J.E. Purkinje (d) A.V. Leeuwenhoek
- The power houses of the cell are
(a) Ribosome (b) Chloroplast
(c) Mitochondria (d) Golgi apparatus
- The cell theory was proposed by

- | | |
|---------------------------|-------------------|
| (a) Schleiden and Schwann | (b) Robert Hooke |
| (c) A. Van Leeuwenhoek | (d) Louis Pasteur |

Fill in the Blanks

Fill in the blanks with a suitable word for each of the questions 1 – 5.

1. The cell theory was given by _____ and _____ .
2. Chromosomes are made up of _____ and _____ .
3. Cell wall is found only in _____.
4. Cork cell possess on their walls that make them impervious to gases and water.
5. have tubular cells with perforated walls and are living in nature.

True or False

State whether the following statements are true or false for each of the questions 1–5.

1. The oxidation of food takes place in chloroplasts.
2. Epithelial tissues is protective tissue in animal body.
3. The lining of blood vessels, lung alveoli and kidney tubules are made up of epithelial tissue.
4. Epithelial cells have lot of intercellular spaces.
5. Epithelial layer is permeable layer.

Theoretical Questions

Answer each of the questions 1 – 5.

1. Distinguish between animal and plant cell.

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2. What is the function of mitochondria?

3. Which cell organelle is responsible for release of energy as ATP?

4. Why are meristematic cells called ‘parent cells’?

5. Name the plant tissue made up of more than one type of cells.

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