

International Indian School, Riyadh.

Worksheet

Subject - Biology

Class - IX

Lesson - 5, The fundamental Unit of life.

1. What is a prokaryotic and eukaryotic cell?
2. Give one word answer for the following.
 - (i) organelle containing chlorophyll
 - (ii) living matter of the cell
 - (iii) cell without membrane bound nucleus
 - (iv) organelle known as suicidal bag of a cell
 - (v) organelle responsible for the release of energy as ATP
 - (vi) cell organelle present only in plants which ^{have} their own _{genetic material}.
3. Define (i) Osmosis (ii) diffusion
4. Give the difference between leucoplast and chromoplast.
5. Why is the cell called the unit of life?
6. What is a gene? Give its functions.
7. Name the process by which CO_2 and H_2O move into and out of the cell.
8. State the technical term for a medium which has exactly the same concentration as the cell? Why does the size of the cell remain the same when placed in such a solution?
9. Write the functions of (i) Golgi apparatus (ii) Plasmamembrane (iii) vacuoles (iv) ER (v) Mitochondria.

10. Differentiate between
(1) Plant cell and animal cell
(2) RER and SER

11. Describe the role played by lysosomes.
Why they are termed as suicidal bags?
How do they perform their function?

Drawings → Animal cell
Plant cell
Prokaryotic cell.

Lesson - 6 Tissues.

1. What are the various types of tissues found plants?
2. Name the elements of xylem which
(i) helps in the transport of water and minerals.
(ii) stores food
(iii) provides mechanical support.
3. State the constituents of Phloem.
4. Where are collenchyma located?
5. Write one word answer.
(i) Long and unbranched extension of neuron
(ii) Thickenings present in sclerenchyma
(iii) water proof layer present on the outer wall of epidermal cell.
6. (iv) the tissue stores fat
(v) minute pores present in the epidermis.
(vi) tissue capable of cell division
6. What are the functions of xylem and Phloem?

7. Give reasons for the following statements
- the blood is called connective tissue.
 - muscles are able to contract and relax to bring about movements.
 - muscles of heart are called involuntary muscles.
8. What are the characteristic features of meristematic tissues?
9. Write the names of different types of simple tissues. State one important function of them.
10. Differentiate between
- Xylem and Phloem
 - bones and cartilage
 - striated and unstriated muscles.
11. Mention one function each of the following
- Areolar tissue
 - Ligament
 - Ciliated columnar epithelial tissue
 - Tendons.
- Diagrams → All plant tissues & animal tissues.

Lesson - 15 Improvement in Food Resources

- What are micronutrients and macronutrients?
- What is manure?
- Name any two common weeds that grow with wheat and paddy.
- What are milch and draught animals?
- Name two exotic and Indian breeds of cow.
- How do insect and pests attack the crops?

7. What are the advantages of composite-fish culture?

8. What is Pasturage and how is it related to honey production?

9. Compare the use of manure and fertilizers.

10. What are the differences between broilers and layers?