

## Chapter 8 -Cell -Structure and Functions

1. Is the following statement correct? If it is wrong, correct the statement

Statement : "Unicellular organisms do not respire, only multicellular organisms respire"

2. Match the terms given in column I with their functions given in column II and fill the blanks given below the table:

Column I	Column II
A. Chloroplast	i) carries hereditary characters
B. Cell membrane	ii) controls the activities of cells
C. Nucleus	iii) site of photosynthesis
D. Chromosome	iv) controls the movement of materials into and out of cells.

A-\_\_\_\_; B-\_\_\_\_; C-\_\_\_\_; D-\_\_\_\_

3. Observe the following diagram given as Fig. 8.1.

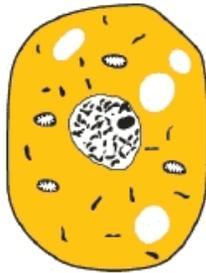


Fig. 8.1

Answer the following questions.

- o A. Does it represent a plant cell or an animal cell?
- o B. Does it represent a prokaryotic cell or an eukaryotic cell?

4. Label the parts A to E in the given as Fig. 8.2 diagram.

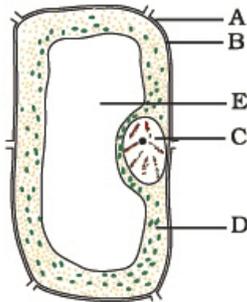


Fig. 8.2

5. Classify the following terms into cells, tissues and organs and write in the tabular column given below.

RBC, WBC, Nerve cell, blood, muscle, blood vessels, brain, heart, hand

Cell	Tissue	Organ
.....	.....	.....
.....	.....	.....
.....	.....	.....

6. Read the following statements and write the appropriate term against each statement.

- o A. I control the functions of a cell. Who am I? .....
- o B. I am like a policeman. I do not allow anything and everything to get in and out of the cell. Who am I? .....

◦ C. I transfer characters from parents to offsprings. Who am I? .....

7. Fill in the blanks with the terms given in the box below:

Nucleus, chromosomes, cell wall, cell membrane, protoplasm, cytoplasm, ribosome, cell organelles

The outermost layer of plant cells is the (a) beneath which is the (b). The term (c) refers to the jelly-like substance containing all the (d). The (e) contains thread-like structures called (f).

### Long Answer Type Questions

1. Cells consist of many organelles, yet we do not call any of these organelles as structural and functional unit of living organisms. Explain.
2. Why do plant cells have an additional layer surrounding the cell membrane? What is this layer known as?
3. The size of the cells of an organism has no relation with the size of its body. Do you agree? Give reason for your answer.