

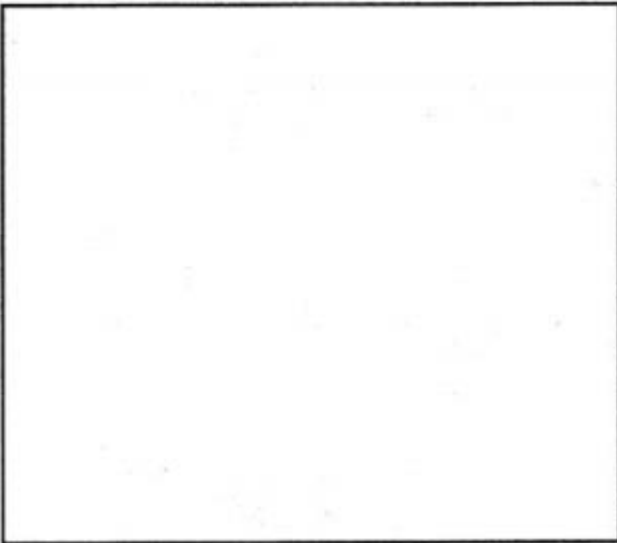
Grade 8 Cell Structure and Functions Worksheets

A. State True or False:

1. Unicellular organisms have one-celled body.
2. Muscle cells are branched.
3. The basic living unit of an organism is an organ.
4. Amoeba has irregular shape.
5. Most of the cells have nucleus.

B. Answer the following questions in short:

1. Make a sketch of the human nerve cell. What function do nerve cells perform?



2. Write short notes on the following:

(a) Cytoplasm

(b) Nucleus of a cell

3. Which part of the cell contains organelles?

4. Make sketches of animal and plant cells. State three differences between them.

Animal Cells	Plant Cells

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5. State the difference between eukaryotes and prokaryotes.
6. Where are chromosomes found in a cell? State their function.
7. 'Cells are the basic structural units of living organisms.' Explain.
8. Explain why chloroplasts are found only in plant cells?
9. Why do plant cells need a cell wall, and animals cells do not?
10. Do the number of cells in an organism affect its functioning? Give reasons.

C. Tick (✓) the correct option:

1. The cell wall is made of a non-living material known as:
(a) chromosome
(b) nucleic acid
(c) cellulose
(d) protoplasm
2. Food-making structures found in the cells of green plants are called:
(a) chloroplasts
(b) chromosomes
(c) mitochondria
(d) chromoplasts
3. Cells which are long and branched are:
(a) muscle cells
(b) nerve cells
(c) red blood cells
(d) ostrich egg cells
4. The largest known cell is:
(a) ostrich egg
(b) RBC
(c) WBC
(d) skin cell

D. Fill in the blanks:

1. The is the control centre of the cell.
2. An is a cell that can be seen without a microscope.
3. Energy is produced in
4. Cell wall is found in cell.

E. Match the following:

'A' (Items)	'B' (Features)
1. Amoeba	a. WBC
2. Blood	b. Largest cell
3. Ostrich egg	c. Flagella
4. Paramecium	d. Pseudopodia
5. Bacteria	e. Smallest cell

F. Compare the plant cell and animal cell, then complete the table:

S.No.	Part	Plant Cell	Animal Cell
1.	Cell membrane	Present	Present
2.	Cell wall	Present	Absent
3.	Nucleus		
4.	Nuclear membrane		
5.	Cytoplasm		
6.	Plastids		
7.	Vacuole		

G. Complete the crossword with the help of clues given below:

Across (→)

1. This is necessary for photosynthesis.
3. Term for component present in the cytoplasm.
6. The living substance in the cell.
8. Units of inheritance present on the chromosomes.

Down (↓)

1. Green plastids.
2. Formed by collection of tissues.
4. It separates the contents of the cell from the surrounding medium.'
5. Empty structure in the cytoplasm.

7. A group of cells.

