

Chapter 3: The Cell

Worksheet 1

1. Fill in the blanks.

- (i) Jelly-like substance between cell membrane and nucleus is known as _____.
- (ii) The _____ is called powerhouse of the cell.
- (iii) _____ has cup-shaped chloroplast.
- (iv) New cells are formed by the process of _____.

2. Give one word for the following.

- (i) Rounded body present the nucleoplasm
- (ii) The network of chromatin material
- (iii) Organelle that traps solar energy for photosynthesis
- (iv) Plastids that store starch

3. Tick the correct answer.

- (i) The smallest cells of human body are
 - (a) Nerve cells
 - (b) Red blood cells
 - (c) Muscle cells
 - (d) White blood cells
- (ii) The term 'cell' was coined by
 - (a) Robert Hooke
 - (b) Robert Brown
 - (c) Schleiden
 - (d) Schwann

4. Answer the following questions.

- (i) Why are chloroplasts found only in plant cells?
- (ii) Give functions of vacuole in plant cell.
- (iii) Why is cell division essential?
- (iv) Draw the cells of onion peel as seen under microscope. What are their features?

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Worksheet 2

1. Define the following.

- (i) Cell
- (ii) Tonoplast
- (iii) Micron
- (iv) Organelle
- (v) Microscope

2. Differentiate between the following.

- (i) Unicellular and multicellular organisms
- (ii) Cytoplasm and nucleoplasm
- (iii) Chromoplasts and leucoplasts
- (iv) Plant cell and animal cell

3. Fill in the blanks.

- (i) In green plants, photosynthesis occurs in _____.
- (ii) *Amoeba* has finger-like _____ .
- (iii) Cell wall in plant cells is made up of _____.
- (iv) _____ are the protein factories of the cell.

4. Answer the following questions.

- (i) What did Leeuwenhoek observe in rainwater?
- (ii) Name the amoeboid cells found in human body.
- (iii) What are nuclear pores?
- (iv) What is the function of nucleus?

5. Draw a plant cell and label its various parts.