

Chapter – 8 | Cell: The Unit of Life**QUIZ
PART-02**

1. Onion cell is an example of a typical —

- A. Animal cell
 - B. Plant cell
 - C. Bacterial cell
 - D. Viral cell
- (B)

Explanation : Onion cell is shown as a typical plant cell with a clear cell wall.

2. In animal cells, the outer boundary is —

- A. Cell wall
 - B. Cell membrane
 - C. Nuclear membrane
 - D. Tonoplast
- (B)

Explanation : Human cheek cells have cell membrane as the outer boundary.

3. A eukaryotic cell has —

- A. No nucleus
 - B. Membrane-bound nucleus
 - C. Only circular DNA
 - D. No cytoplasm
- (B)

Explanation : Eukaryotic cells contain a nucleus surrounded by a nuclear membrane.

4. Prokaryotic cells lack —

- A. Cytoplasm
 - B. Plasma membrane
 - C. Membrane-bound nucleus
 - D. Ribosomes
- (C)

Explanation : Prokaryotic cells do not have a membrane-bound nucleus.

5. The semi-fluid matrix occupying the cell volume is called —

- A. Cytoplasm
 - B. Cell wall
 - C. Chromosome
 - D. Centrosome
- (A)

Explanation : Cytoplasm is the semi-fluid matrix in both prokaryotic and eukaryotic cells.

6. Main cellular activities occur in the —

- A. Cell wall
 - B. Cytoplasm
 - C. Vacuole only
 - D. Capsule only
- (B)

Explanation : Cytoplasm is the main arena of cellular activities.

7. Which organelle is present in both prokaryotic and eukaryotic cells?

- A. Golgi body
 - B. Mitochondria
 - C. Ribosome
 - D. Lysosome
- (C)

Explanation : Ribosomes are membrane-less organelles present in both types of cells.

8. The largest isolated single cell is —

- A. Mycoplasma
 - B. Human RBC
 - C. Ostrich egg
 - D. Bacteria
- (C)

Explanation : Ostrich egg is mentioned as the largest isolated single cell.

9. The smallest cell is —

- A. Mycoplasma
 - B. Nerve cell
 - C. Chlamydomonas
 - D. Human cheek cell
- (A)

Explanation : Mycoplasma is the smallest cell, about 0.3 μm in length.

10. Prokaryotic cells include —

- A. Bacteria, blue-green algae and mycoplasma
 - B. Plants and animals only
 - C. Fungi and animals only
 - D. Nerve cells and RBC only
- (A)

Explanation : These are listed as examples of prokaryotic cells.