

Chapter – 8 | Cell: The Unit of Life**QUIZ
PART-01**

1. Cell is known as the —

- A. Chemical unit of matter
- B. Structural and functional unit of life
- C. Largest unit of body
- D. Non-living unit of organisms (B)

Explanation : The PPT states that the cell is the structural and functional unit of life.

2. Organisms made up of a single cell are called —

- A. Multicellular organisms
- B. Colonial organisms
- C. Unicellular organisms
- D. Acellular organisms (C)

Explanation : Unicellular organisms are made up of one cell and perform all life functions independently.

3. Which of the following is an example of a unicellular organism?

- A. Human
- B. Plant
- C. Bacteria
- D. Fungus body (C)

Explanation : Bacteria, Chlamydomonas and protozoa are given as unicellular organisms.

4. Robert Hooke observed cells in a thin section of —

- A. Onion root
- B. Cork
- C. Blood
- D. Bacteria (B)

Explanation : Robert Hooke studied a thin cross-section of cork and named the chambers "cells."

5. Who first observed living cells?

- A. Robert Hooke
- B. Robert Brown
- C. Anton van Leeuwenhoek
- D. Rudolf Virchow (C)

Explanation : Anton van Leeuwenhoek first discovered living cells.

6. Robert Brown discovered the —

- A. Cell wall
- B. Nucleus
- C. Ribosome
- D. Mitochondria (B)

Explanation : Robert Brown discovered the nucleus in orchid root cells in 1831.

7. Cell theory was jointly proposed by —

- A. Schleiden and Schwann
- B. Hooke and Brown
- C. Virchow and Pasteur
- D. Leeuwenhoek and Hooke (A)

Explanation : Matthias Schleiden and Theodore Schwann jointly proposed cell theory.

8. The main drawback of old cell theory was that it failed to explain —

- A. Cell wall
- B. Formation of new cells
- C. Presence of nucleus
- D. Plant tissues (B)

Explanation : The old cell theory could not explain how new cells are formed.

9. "Omnis cellula e cellula" means —

- A. All cells lack nucleus
- B. All cells are formed from pre-existing cells
- C. All cells are dead
- D. All cells are made of cork (B)

Explanation : Rudolf Virchow explained that new cells arise from pre-existing cells.

10. Modern cell theory was modified by —

- A. Robert Hooke
- B. Rudolf Virchow
- C. Anton van Leeuwenhoek
- D. Matthias Schleiden (B)

Explanation : Virchow modified the old cell theory and gave the modern cell theory.