

1. Who coined the term "cell" for the first time in science?

- A. Antonie van Leeuwenhoek
- B. Robert Hooke
- C. Ananda Mohan Chakrabarty
- D. Aristotle (B)

Explanation : Robert Hooke observed cork through a microscope and described small compartments as "cells".

2. What is the function of the vacuole in plant cells?

- A. Helps in respiration
- B. Stores nutrients and waste
- C. Controls cell activities
- D. Protects from infections (B)

Explanation : Vacuoles store useful substances, remove waste, and maintain cell shape.

3. Which microorganism is used in curd formation?

- A. Yeast
- B. Lactobacillus
- C. Rhizobium
- D. Amoeba (B)

Explanation : Lactobacillus ferments milk sugar (lactose) into lactic acid, forming curd.

4. Which of the following has a nucleoid instead of a well-defined nucleus?

- A. Algae
- B. Protozoa
- C. Bacteria
- D. Fungi (C)

Explanation : Bacteria lack a true nucleus and have a nucleoid region.

5. What shape are human cheek cells?

- A. Spindle-shaped
- B. Long and branched
- C. Thin and flat
- D. Oval (C)

Explanation : Cheek cells form a protective lining and are thin and flat.

6. Which part of the cell controls all its activities?

- A. Cytoplasm
- B. Nucleus
- C. Cell membrane
- D. Vacuole (B)

Explanation : The nucleus regulates all cell activities and growth.

7. Which microorganism is responsible for nitrogen fixation in legume roots?

- A. Amoeba
- B. Lactobacillus
- C. Yeast
- D. Rhizobium (D)

Explanation : Rhizobium resides in root nodules and converts atmospheric nitrogen into a usable form.

8. What is the role of yeast in baking?

- A. Adds flavour
- B. Produces alcohol
- C. Makes dough fluffy by releasing carbon dioxide
- D. Makes dough sticky (C)

Explanation : Yeast releases CO₂ during respiration, which causes the dough to rise.

9. Which cell organelle is present in plant cells but not in animal cells?

- A. Cytoplasm
- B. Nucleus
- C. Cell membrane
- D. Chloroplast (D)

Explanation : Chloroplasts are found only in plant cells and help in photosynthesis.

10. What do we call organisms that can only be seen through a microscope?

- A. Plants
- B. Multicellular organisms
- C. Microorganisms
- D. Vertebrates (C)

Explanation : Microorganisms are tiny living beings not visible to the naked eye.