

## Chapter - 2 | The Invisible Living World: Beyond Our Naked Eye

### QUIZ-01

- 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".

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- 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 CO<sub>2</sub> during respiration, which causes the dough to rise.

- 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.

- 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.