

Chapter-2

The Invisible Living World: Beyond Our Naked Eye

Worksheet 2A

Name Class Sec. Roll No.

A. Tick the correct option:

1. Observe the given image.



What are these cells classified as?

- (A) Animal cells, because they all look identical.
 - (B) Plant cells, because they are closely arranged with no space between them.
 - (C) Plant cells, because they have simple cell structure.
 - (D) Animal cells, because they perform all the necessary functions of an animal.
2. The cells of plants have a rigid shape unlike those of animals. The absence or presence of which part of the cell causes this difference?
- (A) Cell wall
 - (B) Vacuoles
 - (C) Chloroplast
 - (D) Nuclear membrane
3. The jelly-like fluid substance present in cells is called
- (A) nucleus
 - (B) chloroplast
 - (C) chromosome
 - (D) cytoplasm
4. Which of the following statements is true for cells?
- (A) Cells can be easily seen with naked eyes.
 - (B) Insect's egg is not a cell.
 - (C) A single cell can perform all the functions in a unicellular organism.
 - (D) The size and shape of cells is uniform in multicellular organisms.
5. A student takes 2 pots M and N filled with some soil. He puts plant waste in pot M and plastic products in pot N. He places both the pots in an open area for 3-4 weeks and observes that the content in Pot M is converted into manure while the content in Pot N remains the same.
- What can be a likely reason for the production of manure in pot M?
- (A) Microorganisms decompose plant waste faster than plastic.
 - (B) Microorganisms degrade plastic slowly compared to plant waste.
 - (C) Microorganisms only degrade plastic waste to produce manure.
 - (D) Microorganisms only decompose plant waste into manure.
6. The gas released during the preparation of bread is
- (A) oxygen
 - (B) nitrogen
 - (C) carbon dioxide
 - (D) sulphur dioxide

7. The most important function of cell membrane is that it
 (A) controls the entry and exit of materials from cells
 (B) controls only the entry of materials into cells
 (C) controls only the exit of materials from cells
 (D) allows entry and exit of materials without any control

B. Fill in the blanks.

- Cells in all parts of a plant have tiny rod-shaped structures called
- is known as the Father of Microbiology.
- Nerve cells are also known as
- An electron microscope magnifies the cell about times.

C. Match the items in Column A with those in column B:

Column A	Column B
1. <i>Amoeba</i>	(i) Spiral or rod-shaped
2. <i>Paramecium</i>	(ii) Single cell, irregular shape
3. Bread mould	(iii) Single cell, moves from one place to another
4. Algae	(iv) Branched filament without chlorophyll
5. Bacteria	(v) Spherical cells, with chlorophyll

D. Very Short Answer Type Questions

1. What is manure?

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2. Name one microalgae that is used by humans as health supplements and medicines.

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3. Write the function of nucleus in a cell.

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4. Why fungi cannot make their own food through photosynthesis?

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E. Short Answer Type Questions

1. Distinguish between a muscle cell and a nerve cell.

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2. How microalgae help in protecting the environment and maintain oxygen balance on earth?

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3. A farmer was planting wheat crops in his field. He added nitrogen rich fertiliser to the soil to get yield of crops. In the neighbouring field, another farmer was growing bean crops, but she preferred not to add nitrogen fertiliser to get healthy crops. Can you think of the reasons?

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F. Long Answer Type Questions

1. How are microorganisms both helpful and harmful to us? Explain with examples.

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G. Case Based Question

Observe the set up given in the figure and answer the questions that follow.

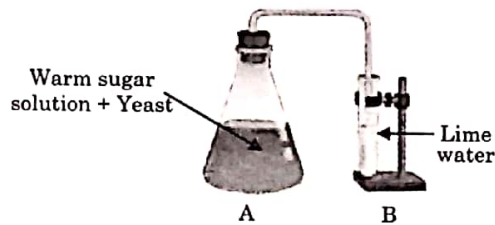


Fig.: Experimental set-up

1. What happens to the sugar solution in flask A?
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2. What do you observe in test tube B after four hours? Why do you think this happened?
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3. What would happen if yeast was not added in flask A?
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