

Microorganisms

A. Choose the correct answer:

1. Which of the following is a microorganism?

- a) Ant
- b) Amoeba
- c) Earthworm
- d) Butterfly

2. Which microorganism is used in the production of alcohol and bread?

- a) Bacteria
- b) Virus
- c) Yeast
- d) Algae

3. Which disease is caused by a virus?

- a) Tuberculosis
- b) Typhoid
- c) Cholera
- d) Influenza

B. Fill in the Blanks:

1. Microorganisms that can live in extreme conditions are called _____.
2. _____ is a fungus used in baking to make dough rise.
3. _____ are microorganisms that reproduce only inside a host cell.

C. Case Study:

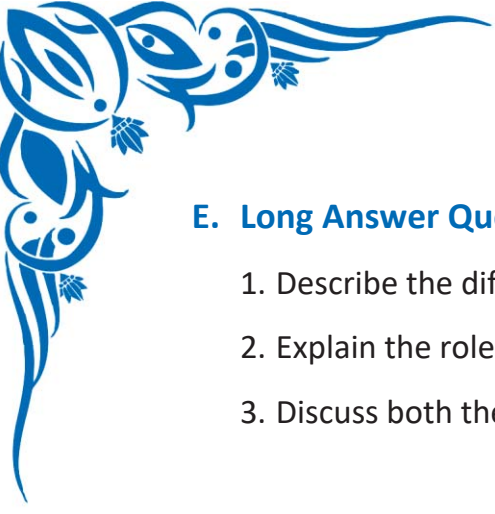
Rohan conducted an experiment in his school lab using yeast, sugar, and warm water. He observed bubbles forming on the surface of the solution after a while. His teacher explained that the bubbles were due to the production of a gas by yeast during fermentation.

Case Study Questions:

1. What kind of microorganism is yeast?
2. What was the gas produced during Rohan's experiment?
3. What is the name of the process observed by Rohan?
4. How is this process useful in real-life applications?

D. Short Answer Questions:

1. What are microorganisms? Give two examples.
2. How do microorganisms help in nitrogen fixation?
3. Mention any two harmful effects of microorganisms.



E. Long Answer Questions:

1. Describe the different types of microorganisms with examples.
2. Explain the role of microorganisms in food production and medicine.
3. Discuss both the beneficial and harmful roles of microorganisms in our lives.