

DELHI PUBLIC SCHOOL JAMMU

SESSION 2025-2026

MONTH : APRIL

ASSIGNMENT-I

CLASS : VIII

SUBJECT: SCIENCE

TOPIC : Microorganisms: Friend and Foe

Q1. Which of the following is a protozoa?

- a) Amoeba b) Yeast c) Escherichia coli d) Mushroom

Q2. Assertion (A): Diseases spread by vectors are non-communicable diseases.

Reason (R) : Malaria is one such disease spread by vectors.

- a) Both A and R are true, and R is the correct explanation of A.
b) Both A and R are true, but R is not the correct explanation of A.
c) A is true, but R is false.
d) A is false, but R is true.

Q3. What is food preservation?

Q4. How do viruses differ from other microorganisms?

Q5. Define nitrogen cycle. Describe any two steps of nitrogen cycle.

Q6. Read the following paragraph and answer the questions.

The ability of one's body to resist a disease is known as immunity. Immunity against a particular disease is developed by a technique called vaccination. A small dose of dead or weakened disease-causing microbes used to stimulate immune response against that disease in the body is called a vaccine. When a vaccine is introduced in the body of a healthy person, it acts like an antigen. The body of the person produces antibodies against these introduced microbes. These antibodies remain in the body and protect him/her against future infections of same microbes. Several diseases including cholera, tuberculosis, smallpox, tetanus, polio and hepatitis-B can be prevented by vaccination. The vaccine is either injected or given orally.

(a) When a vaccine is introduced in the body of a healthy person, it acts like a/an

- i) Antibody
ii) Antigen
iii) Immunity
iv) All of these

(b) Which of the following diseases can be prevented by vaccination?

- i) Cholera
ii) Tuberculosis
iii) Smallpox
iv) All of these

(c) Define vaccine.