

SUMMATIVE ASSESSMENT 1
SCIENCE

CLASS- VIII

SA1

ASSIGNMENT NO. 03

MICROORGANISMS: FRIEND AND FOE

Q1. Answer the following:

- i. Microbes that reproduce only inside the host-
- ii. A viral disease-
- iii. An example of a fungi-
- iv. Single celled microbes-
- v. Microorganism that increases soil fertility-
- vi. Microbes that could be present in form of colonies-
- vii. Bacteria which causes anthrax disease-
- viii. Any one preservative-
- ix. A plant that can show root nodule formation –
- x. A useful Fungi-
- xi. A disease that has been eradicated from most parts of the world –
- xii. A bacterial disease in plants-

Q2. Tick the correct option:

1. Microbe involved in curd formation:

- i) Amoeba ii) *Lactobacillus* iii) Rhizobium iv) Bread Mould

2. Which of the following is not a fungi:

- i) Bread Mould ii) Penicillium iii) Aspergillus iv) Spirogyra

3. The carrier of malarial parasite:

- i) Anopheles ii) Aedes iii) Housefly iv) Virus

4. Rust of wheat is caused by:

- i) Bacteria ii) Virus iii) Fungi iv) Protozoa

5. Which of the following can result in spread of microbes:

- i) Air ii) Water iii) Food iv) All of these

6. The term vaccine was introduced by which scientist?

- i) Edward Jenner ii) Robert Hooke iii) Alexander Flemming iv) Robert Koch

7. Chlorophyll is present in which of the following organisms

- i) Bacteria ii) Virus iii) Algae iv) Protozoa

8. Yeast is used in the production of:

- i) Hydrochloric acid ii) Alcohol iii) Sugar iv) Oxygen

9. Which of the following does not contribute to nitrogen availability in the soil?

- i) Decay of organic matter ii) Lightning iii) Rhizobium iv) *Lactobacillus*

Q3. Give the contributions of the following:

- A. Louis Pasteur
- B. Alexander Fleming
- C. Robert Koch

Q4. Name some antibiotics obtained from microbes?

Q5. Define:

- A. Microbes
- B. Pathogens
- C. Nitrogen Fixation
- D. Pasteurization
- E. Preservatives
- F. Carriers

Q6. Give two uses of microorganisms in the following areas:

- i) Food Industry ii) Medicinal Use iii) Environment related

Q7. Why milk in polypacks does not get spoiled?

Q8. List few differences between Antibiotics and Antibodies?

Q9. List some harmful effects of microorganism?

Q10. How can we control the spread of diseases caused by mosquitoes?

Q11. Why does sugar solution with yeast powder become alcoholic in taste?

Q12. Megha, a class VIII student was asked to submit a project report on mosquito transmitted diseases. She visited a nearby hospital where her aunt was staffed as a nurse. Her aunt took her to a patient suffering from malaria. Megha talked to the patient and asked him about his health and also took some flowers for him.

(a) Name the mosquito that spreads malaria.

(b) What is the name given to such organisms that transmit the diseases from infected to healthy persons?

(c) How can we control the spread of diseases by mosquitoes?

(d) Identify two important values as shown by Megha.

Q13. Kushal's family is happy as he became a proud father to a baby girl. Upon a routine visit to the hospital, the doctor advised him not to skip the vaccination schedule. While discussing the same at home, one of the family members suggested that vaccination is not necessary for a girl child. Kushal opposed this suggestion.

(a) What is vaccination?

(b) Name the scientist who prepared the first vaccine?

(c) Critically comment upon Kushal's viewpoint.

Q14. Fill ups:

1. Tuberculosis is caused by _____.
2. Tetanus disease is caused by _____.
3. _____ fixes atmospheric nitrogen useful to plants.
4. _____ is used in production of vinegar from alcohol.
5. A micro-organism that has no cellular structure. _____.
6. Fungi used in bakeries. _____ .
7. Microbes lying on the border of living and non-living. _____ .

Q15. Name 2 bacterial diseases that spread through the medium of

a) AIR: _____, _____

b) Contaminated food and water : _____, _____