

Microorganisms: Friend and Foe

1. Write the contributions of the following:

- A. Louis Pasteur
- B. Edward Jenner
- C. Alexander Fleming
- D. Robert Koch

2. Define:

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

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

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

4. Give an activity to show the process of fermentation?

5. List few differences between Antibiotics and Antibodies?

6. Explain Nitrogen Cycle in detail with the help of a cyclic representation?

7. List some harmful effects of microorganism?

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

9. Why milk in polypacks does not get spoiled?

10. What are antibiotics? What precautions must be taken while taking antibiotics?

11. Can microorganisms be seen with the naked eye? If not, how can they be seen?

12. What are the major groups of microorganisms?

13. Name the microorganisms which can fix atmospheric nitrogen in the soil.

14. Write 10 points on the usefulness of microorganisms in our lives.

15. Write a short paragraph on the harms caused by microorganisms.

Microorganisms: Friend and Foe

MCQs

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:

- A. Air ii) Water iii) Food iv) All of these

1. Fill in the blanks:

- (a) Microorganisms can be seen with the help of a _____.
- (b) Blue green algae fix _____ directly from air to enhance fertility of soil.
- (c) Alcohol is produced with the help of _____.
- (d) Cholera is caused by _____.

2. Tick the correct answer:

(a) Yeast is used in the production of

- (i) sugar (ii) alcohol (iii) hydrochloric acid (iv) oxygen

(b) The following is an antibiotic

- (i) Sodium bicarbonate (ii) Streptomycin (iii) Alcohol (iv) Yeast

(c) Carrier of malaria-causing protozoan is

- (i) female Anopheles mosquito (ii) cockroach (iii) housefly (iv) butterfly

(d) The most common carrier of communicable diseases is

- (i) ant (ii) housefly (iii) dragonfly (iv) spider

(e) The bread or idli dough rises because of

- (i) heat (ii) grinding (iii) growth of yeast cells (iv) kneading

(f) The process of conversion of sugar into alcohol is called

- (i) nitrogen fixation (ii) moulding (iii) fermentation (iv) infection

Microorganisms: Friend and Foe : MCQ for VIII: Biology

- The yeast multiply by a process called
 - Binary fission
 - Budding
 - Spore formation
 - None of the above
- The example of protozoan is
 - Penicillium
 - Blue green algae
 - Amoeba
 - Bacillus
- The most common carrier of communicable diseases is
 - Ant
 - Housefly
 - Dragonfly
 - Spider
- The following is an antibiotics
 - Alcohol
 - Yeast
 - Sodium bicarbonate
 - Streptomycin
- Yeast produces alcohol and carbon dioxide by a process called
 - Evaporation
 - Respiration
 - Fermentation
 - Digestion
- The algae commonly used as fertilizers are called
 - Staphylococcus
 - Diatoms
 - Blue green algae
 - None of the above
- Cholera is caused by
 - Bacteria
 - Virus
 - Protozoa
 - Fungi
- Plant disease citrus canker is caused by
 - Virus

- (b) Fungi
- (c) Bacteria
- (d) None of these

9. The bread dough rises because of

- (a) Kneading
- (b) Heat
- (c) Grinding
- (d) Growth of yeast cells

10. Carrier of dengue virus is

- (a) House fly
- (b) Dragon fly
- (c) Female Aedes Mosquito
- (d) Butterfly

11. Yeast is used in the production of

- (a) Sugar
- (b) Alcohol
- (c) Hydrochloric acid
- (d) Oxygen

12. The vaccine for smallpox was discovered by

- (a) Robert Koch
- (b) Alexander Fleming
- (c) Sir Ronald Ross
- (d) Edward Jenner

13. Chickenpox is caused by

- (a) Virus
- (b) Fungi
- (c) Protozoa
- (d) Bacteria

14. The bacterium which promote the formation of curd

- (a) Rhizobium
- (b) Spirogyra
- (c) Bread mould
- (d) Lactobacillus

15. Plasmodium is a human parasite which causes

- (a) dysentery
- (b) Sleeping sickness
- (c) Malaria
- (d) All of the above

16. The bacterium Bacillus Anthracis was discovered by
(a) Edward Jenner
(b) Alexander Fleming
(c) Louis Pasteur
(d) Robert Koch
17. Carrier of malaria causing protozoan is
(a) Butterfly
(b) Housefly
(c) Female Anopheles Mosquito
(d) Cockroach
18. The process of conversion of sugar into alcohol is called
(a) Infection
(b) Moulding
(c) Nitrogen fixation
(d) Fermentation
19. Foot and mouth disease of cattle is caused by
(a) Fungi
(b) Virus
(c) Algae
(d) None of these
20. Which of the following is not a fungi
(a) Paramecium
(b) Bread mould
(c) Penicillium
(d) Aspergillus

Answers:

- 1) b 2) c 3) b 4) d 5) c 6) c 7) a 8) c 9) d 10) c 11) b
12) d 13) a 14) d 15) c 16) d 17) c 18) d 19) b 20) a