

## Lakhmir Singh Science Class 8 Solutions For Chapter 2 Microorganisms: Friends and Foe

**1. Name the instrument (or device) which is needed to see the micro-organisms.**

The instrument (or device) which is needed to see the micro-organisms is a microscope.

**2. What is the name of micro-organisms which reproduce only inside the living cells of other organisms?**

The micro-organisms which reproduce only inside the living cells of other organisms are viruses.

**3. What are the major groups of microorganisms?**

The five major groups of microorganisms are

- Bacteria
- Viruses
- Protozoa
- Fungi
- Algae

**4. Name any two human diseases caused by bacteria.**

The two human diseases caused by bacteria are Cholera and typhoid.

**5. Name any two human diseases caused by viruses.**

The two human diseases caused by virus bacteria are Corona and influenza.

**6. Name any two human diseases caused by protozoa.**

The two human diseases caused by protozoa are dysentery and malaria.

**7. Name any two human diseases caused by fungi.**

The two human diseases caused by fungi are diseases athlete's food and ringworm

**8. Which micro-organism is utilized in making curd from milk?**

Lactobacillus bacteria are utilized in making curd from milk.

**9. Name the -micro-organism which is used for the large scale production of alcohol.**

The -micro-organism which is used for the large scale production of alcohol is Yeast.

**10. Name any two antibiotics.**

Streptomycin and erythromycin are two commonly known antibiotics.

**11. Name an antibiotic extracted from fungus (mould). Name the fungus.**

An antibiotic Penicillin was extracted from fungus (mould) by Alexander Fleming in 1929. This antibiotic was made from the fungus called penicillium.

**12. Name any four diseases which can be prevented by vaccination.**

Four diseases which can be prevented by vaccination are Influenza, tuberculosis, Hepatitis B, Measles,

**13. Name the scientist who discovered the-vaccine for ‘smallpox’.**

Edward Jenner discovered the vaccine for smallpox.

**14. Name the scientist who discovered ‘penicillin’.**

Alexander Fleming discovered the antibiotic Penicillin vaccine in 1929.

**15. State an important function performed by blue-green algae.**

The blue-green algae help in nitrogen fixation in soil and enrich the soil fertility.

**16. Name one ‘biological nitrogen-fixer’.**

Blue-green algae is the biological nitrogen fixer.

**17. Name two common insects that act as carriers of disease-causing micro-organisms (or disease-causing microbes).**

Housefly and mosquito are the two common insects that act as carriers of disease-causing micro-organisms (or disease-causing microbes).

**18. Name any two diseases spread by housefly.**

The two diseases spread by houseflies are cholera and typhoid.

**19. Name the insect which is the carrier of a parasite of malaria.**

The insect which is the carrier of a parasite of malaria is female anopheles mosquito.

**20. Name the insect which carries the dengue virus.**

**21. Which of the two spreads dengue: mosquito or housefly?**

Female Aedes mosquito spreads dengue.

**22. Name two diseases spread by mosquitoes.**

Malaria and dengue are the two diseases spread by mosquitoes.

**23. Name the microbe which causes malaria disease.**

The microbe which causes malaria disease is protozoa plasmodium.

**24. Name one disease which spreads by breathing in air containing microorganisms.**

Tuberculosis is the disease which spreads by breathing in air containing microorganisms.

**25. Name one disease which spreads through insect bites.**

The disease which spreads through insect bites is malaria.

**26. Name one disease which spreads through infected food or water.**

Cholera spreads through infected food or water.

**27. Name the causative micro-organisms of the following animal diseases: (a) Foot and mouth disease (b) Anthrax**

(a) Virus

(b) Bacteria

**28. Name two food materials which are preserved by sun-drying method in our homes.**

The two food materials which are preserved by sun-drying method in our homes are vegetable leaves like methi and spinach.

**29. Name two food materials that are preserved by using common salt.**

Fish and meat are preserved by using common salt.

**30. Name two food materials which can be preserved by using sugar.**

Food materials that can be preserved by using sugar are jellies and jam.

**31. Name two food materials which are usually preserved by deep freezing.**

Food materials that can be preserved by using deep freezing are fish and meat.

**32. Name some of the preservatives which are used in the preservation of fruits as jams arid jellies.**

Sodium benzoate and sodium meta bisulphate is used in the preservation of fruits as jams arid jellies.

**33. Name some of the preservatives which are used in the preservation of fruits and vegetables as pickles.**

Salt, oil and vinegar are used in the preservation of fruits and vegetables as pickles.

**34. Name two food materials which can be preserved by using oil or vinegar.**

The food materials which can be preserved by using oil or vinegar are meat and fish

**35. Name any two special chemicals which are used as food preservatives.**

Sodium benzoate and sodium meta bisulphate are two special chemicals which are used as food preservatives.

**36. Name the microorganisms which can fix atmospheric nitrogen in the soil.**

Blue-green algae is the microorganisms which can fix atmospheric nitrogen in the soil.

**37. What type of plants can fix nitrogen gas of the air into compounds of nitrogen?**

Leguminous plants can fix nitrogen gas of the air into compounds of nitrogen.

**38. Name the microorganisms present in the soil and in the root nodules of leguminous plants which can fix atmospheric nitrogen.**

Blue-green algae and Rhizobium bacteria ( nitrogen-fixing bacteria) is present in their root nodules can fix atmospheric nitrogen.

**39. Name two leguminous plants that can fix nitrogen.**

Leguminous plants like peas and beans can fix nitrogen gas of the air into compounds of nitrogen.

**40. Fill in the following blanks with suitable words**

(a) Alcohol is produced with the help of \_\_\_\_\_

(b) Blue-green algae fix \_\_\_\_\_ directly from air to enhance fertility of soil.

(c) Micro-organisms can be seen with help of \_\_\_\_\_

(d) Cholera is caused by \_\_\_\_\_.

(e) Common salt has been used to preserve \_\_\_\_\_ and \_\_\_\_\_ for ages.

(f) The food material which is preserved by pasteurization is \_\_\_\_\_

(g) As a result of the nitrogen cycle, the percentage of nitrogen in the atmosphere remains more or less \_\_\_\_\_

(a) Alcohol is produced with the help of Yeast.

(b) Blue-green algae fix nitrogen directly from the air to enhance fertility of soil.

(c) Micro-organisms can be seen with the help of a microscope.

(d) Cholera is caused by bacteria.

(e) Common salt has been used to preserve meat and fish ages.

(f) The food material which is preserved by pasteurization is milk.

(g) As a result of the nitrogen cycle, the percentage of nitrogen in the atmosphere remains more or less constant.