Subject:- Science Class- VIII Chapter-2

Microorganism: Friends & Foe

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1. Fill in the blanks.
(a) Microorganisms can be seen with the help of a
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(b) Blue green algae fix directly from air and
enhance fertility of soil.
(c) Alcohol is produced with the help of
(d) Cholera is caused by
Sol: (a) microscope, (b) nitrogen, (c) yeast, (d) bacteria.
2. <u>Tick the correct answer</u> .
(a) Yeast is used in the production of
(i) sugar (ii) alcohol (iii) hydrochloric acid (iv) oxygen
Sol: (a) (ii).
(b) The following is an antibiotic
(i) Sodium bicarbonate (ii) Streptomycin (iii) Alcohol (iv) Yeast.
Sol:- (b) (ii).
(c) Carrier of malaria-causing protozoan is
(i) female Anopheles mosquito (ii) cockroach
(iii) housefly (iv) butterfly
Sol:- (c) (i).
(d) The most common carrier of communicable diseases is
(i) ant (ii) housefly (iii) dragonfly (iv) spider
Sol:- (d) (ii)

- (e) The bread or idli dough rises because of
- (i) heat (ii) grinding (iii) growth of yeast cells (iv) kneading Sol:- (e) (iii).
- (f) The process of conversion of sugar into alcohol is called
- (i) nitrogen fixation (ii) moulding (iii) fermentation (iv) infection

Sol:- (f) (iii).

3. Match the organisms in Column A with their action in Column B.

A' 'B'

(i) Bacteria (a) Fixing nitrogen

(ii) Rhizobium (b) Setting of curd

(iii) Lactobacillus (c) Baking of bread

(iv) Yeast (d) Causing malaria

(v) A protozoan (e) Causing cholera

(vi) A virus (f) Causing AIDS

(g) Producing antibodies

Sol:- (i) (e), (ii) (a), (iii) (b), (iv) (c), (v) (d), (vi) (f).

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

Sol:- No, we cannot see them with unaided eyes. They can be seen with the help of microscope.

5. What are the major groups of microorganisms?

Sol:- There are four major group of microorganism such as bacteria, fungi, protozoa and some algae.

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

- Sol:- They are rhizobium, azotobecter, blue green algae (such as anabaena and nostoc) etc.
- Write 10 lines on the usefulness of microorganisms in our lives.

Sol:- Usefulness of microorganisms are as follows:-

- Lactobacillus, a bacterium is useful in formation of curd.
- In the Making of chesse, pickle etc.
- ➤ In cleaning up of environment.
- ➤ In agriculture to increase soil fertility by fixing nitrogen.
- ➤ Microorganisms like yeast are used for the production alcohol.
- > They are used to make vaccine.
- Used to make antibiotics.
- > Used to make manures.
- Some microorganisms are used to make preservatives.
- ➤ It also helps n the fixation of nitrogen into the atmosphere.

Write a short paragraph on the harmful effects of microorganisms.

Sol:- The harm causes by microorganisms are as follows:

- Many communicable diseases like cholera, common cold, chicken pox and tuberculosis etc. are caused by microorganisms.
- ➤ Malaria is caused by a microorganisms called plasmodium carried by female anopheles mosquito.
- > Female Aedes mosquito acts as carrier of dengue virus.
- ➤ Anthrax is a dangerous human and cattle disease caused by a bacterium called Bacillus anthracis.

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

- Sol:- The medicines that kill or stop the growth of the disease causing microorganisms are called antibiotics. Streptomycin, tetracycline etc. The precautions to be taken in using antibiotics area as follows:-
 - ➤ Medicines should be taken only on the advice of a qualified doctor.
 - ➤ One must finish the course prescribed by the doctor.
 - Antibiotics taken unnecessarily may kill the beneficial bacteria in the body.



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