Assignment -4 Subject - Science Class - 8

Topic - Ch-2 (Microorganisms:friends Or foe)

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

Q3 :

Match the organisms in Column I with their action in Column II.

Column I	Column II
(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	

Answer :

Column I	Column II
(i) Bacteria	(e) Causing cholera

Q4 : ✔✔✔✔✔✔

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

Answer :

Micro-organisms are too small to be seen through naked eyes. They can be seen with the help of a magnifying glass or microscope. For example, fungus that grows on bread is so small that it can be seen only with the help of

a magnifying glass or microscope.

Q5 :

What are the major groups of microorganisms?

Answer :

There are five major groups of micro-organisms:

(i) **Bacteria**- They are single celled disease-causing micro-organisms. They can be spiral or rod- shaped. (ii) **Fungi**- They are mostly multicellular disease-causing microbes. Bread moulds are common examples of fungi. (iii) **Protozoa**- They mainly include organisms such as *Amoeba, Plasmodium*,etc. They can be unicellular or multicellular. (iv) **Virus**-Viruses are disease-causing microbes that reproduce only inside the host organism. (v) **Algae**- They include multicellular, photosynthetic organisms such as *Spirogyra, Chlamydomonas*, etc.

Q6 :

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

Answer :

Bacteria such as *Rhizobium* and certain blue-green algae present in the soil can fix atmospheric nitrogen and convert it into usable nitrogenous compounds. These nitrogenous compounds can be easily utilized by plants for the synthesis of plant proteins and other compounds.

Q7 :

Write 10 lines on the usefulness of microorganisms in our lives.

Answer :