

Things to remember

Microbes are unicellular organisms that are present everywhere and can be seen only under the microscope

Microbes belong to bacteria, protozoa, fungi, viruses prions

Some microbes are useful in many ways

Some household products such as curd, yog

hurt, cheese are obtained

By the fermentation activity of the microbes

Alcoholic beverages, antibiotics, organic acids and enzymes are obtained from microbbes

Microbes play an important role in sewage treatment by carrying out degradation of organic matter

Microbes are involved in energy generation in the form of biogas

Microbes are also bio control agents and control pest diseases by acting as bioherbiades and bioinsectiades

Certain bacteria—Rhizobium act as a biofertiliser and contribute significantly to reduce pollution of water bodies

Written work

Question 1

Short Answer Questions (1 mark each)

- a) Expand the term LAB
- b) Name the Baker's yeast
- c) Name one antibiotic of fungal origin
- d) Name the microbes employed to produce biogas

Question 2(2 marks each)

- a) Name two distilled and two undistilled beverages
- b) Name two vitamins produced by bacterial Fermentat
- c) Differentiate between manures and bio fertilisers
- d) State two harmful effects of sewage

Question 3 Long Answer Type Question(4 marks each)

- a) What is IPM? Explain.
- b) Write short notes on Rhizobium

Role of mycorrhiza in crop improvement.

Rhizobium