



BIOLOGY

NCERT - NCERT BIOLOGY(HINGLISH)

MICROBES IN HUMAN WELFARE

Microbes In Human Welfare

1. Bacteria cannot be seen with the naked eyes, but these can be seen with the help of a microscope. If you have to carry a sample from

your home to your biology laboratory to demonstrate the presence of microbes under a microscope, which sample would you carry and why?



Watch Video Solution

2. Give examples to prove that microbes release gases during metabolism.



Watch Video Solution

3. In which food would you find lactic acid bacteria? Mention some of their useful applications.



[Watch Video Solution](#)

4. Name some traditional Indian foods made of wheat, rice and Bengal gram (or their products) which involve use of microbes.



[Watch Video Solution](#)

5. In which way have microbes played a major role in controlling diseases caused by harmful bacteria ?



[Watch Video Solution](#)

6. Name any two species of fungus, which are used in the production of the antibiotics.



[Watch Video Solution](#)

7. What is sewage? In which way can sewage be harmful to us?



Watch Video Solution

8. What is the key difference between primary and secondary sewage treatment?



Watch Video Solution

9. Do you think microbes can also be used as source of energy? If yes, how?



Watch Video Solution

10. Microbes can be used to decrease the use of chemical fertilisers and pesticides. Explain how this can be accomplished.



Watch Video Solution

11. Three water samples namely river water, untreated sewage water and secondary effluent discharge from a sewage treatment plant were subjected to BOD test. The samples were labelled A,B and C. but the laboratory attendant did not note, which was which . The BOD values of the three samples A,B and C were recorded as 20 mg/L , 8 mg/L and 400 mg/L, respectively. which sample of the water is most polluted ? can you assign the correct label to each , assuming the river water is relatively clean



[Watch Video Solution](#)

12. Find out the name of the microbes from which Cyclosporin A (an immunosuppressive drug) and Statins (blood cholesterol lowering agents) are obtained.



[Watch Video Solution](#)

13. Find out the role of microbes in the following and discuss it with your teacher.

(a) Single cell protein (SCP)

(b) Soil



[Watch Video Solution](#)

14. Arrange the following in the decreasing order (most important first) of their importance, for the welfare of human society.

Give reasons for your answer.

Biogas, Citric acid, Penicillin and Curd



[Watch Video Solution](#)

15. How do biofertilisers enrich the fertility of the soil?



Watch Video Solution