



# BIOLOGY

## NCERT - NCERT BIOLOGY(ENGLISH)

### 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?



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



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



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



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



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



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



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



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



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



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**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 attended 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



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



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



(a) Single cell protein (SCP)

(b) Soil



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**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



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



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