



# BIOLOGY

## BOOKS - SUPER COMPANION 5 IN 1

### MICROBES IN HUMAN WELFARE

#### One Mark Questions

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



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



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



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



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5. Name the chemical process involved in the preparation of ethanol.



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6. What are antibiotics?



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7. Name any two antibiotics.



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8. Which bacterium is used in the preparation of acetic acid?



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9. Name the fungus that produces statins.



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10. Name an organism producing pectinase.



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11. Name the enzyme used to clarify fruit juices.



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**12.** How do biofertilizers enrich the fertility of the soil?



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**13.** What is the role of Baker's yeast in the production of bread?



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**14.** Name the two symbiotic and free living  $N_2$  fixing microbes.



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**15.** Expand LAB?



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**16.** Name the fungus which produces cyclosporin A.





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17. Why lipase are used in detergents?



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## Two Mark Questions

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



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



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



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



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5. Find out the name of the microbes from which Cyclosporin A (an immuno-suppressive drug) and Statins (blood cholesterol lowering agents) are obtained.



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6. What are methanogens? Mention its composition.



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7. When was Ganga Action plan started? What is the aim of Ganga Action Plan?



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8. What is dairy technology? Mention any two dairy products.



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9. a) Mention the major sources of biofertilizers.

b) What is biocontrol ? Give any two examples.



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1. Write the scientific name of microbes that produces Streptokinase, Statin and Citric acid.



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2. a) What is biochemical oxygen demand (BOD)?

b) Differentiate between primary sludge and activated sludge.



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## Five Mark Questions

1. What are biofertilisers? Write the main sources of biofertilisers and explain their functions.



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2. Define sewage. Explain the the two stages of treatment of sewage water.



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**3.** Describe the role of microbes in the production of industrial products.



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**4.** Explain the role of microbes in the production of household products.



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