



## BIOLOGY

### BOOKS - BETTER CHOICE PUBLICATION

### MICROBES IN HUMAN WELFARE

#### Very Short Answer Type Questions

1. What is meant by fixation of nitrogen ?  
Explain.



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## 2. Define Biofertilisers.



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## 3. Expand VAM.



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## 4. What are chitinase?



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5. What advantages the fungus derives from mycorrhizal association?



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6. Name first organic acid produced by microbial fermentation.



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7. Which bacteria help in the production of vinegar?



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8. Expand : SCP and LAB.



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9. A free living nitrogen fixing cyanobacterium which can also form symbiotic association

with the water fern Azolla is:



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**10.** Which bacterium contains insecticidal crystal protein?



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**11.** Which microbes are employed to produce biogas?



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**12.** Name the different vitamins which are produced by micro-organisms.



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**13.** Explain Duff. .



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**14.** Discuss Bagasse.



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



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**16.** Why does 'Swiss Cheese' have big holes?



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**17.** Name a microbe used for statin production, which lower blood cholesterol level?



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**18.** Why do we prefer to call secondary wastewater treatment as biological treatment?



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**19.** Why are cyanobacteria considered useful in paddy fields?



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**20.** Name the fermented foods produced from soybean.



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**21.** Name an immunosuppressive agent and its source.



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**22.** What is BOD ?



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**23.** What are antibiotics? Give some examples



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24. Name the enzyme which is used in detergent formulation and helpful in removing oil stain in laundry?



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**Very Short Answer Type Questions Most Expected Questions**

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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## Short Answer Type Questions

1. How Green manures are used?



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2. Explain the role of Cyanobacteria as Biofertilizers.



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3. Give the role of micro-organisms in nature.



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4. What are Fertilizers? What is meant by NPK-fertilizers?



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5. Explain the biological control of weeds with the help of two examples.



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6. Write four advantages of using biofertilisers in Agriculture.



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7. What is Mycorrhiza? How does it act as a Bio-fertilizer.



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8. What is biological significance of *Azolla pinnata* in agriculture?



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9. Most living organisms cannot survive at temperature above  $45^{\circ}\text{C}$ . How are some microbes able to live in habitats with temperatures exceeding  $100^{\circ}\text{C}$  ?



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



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**11.** What is the ecological principle behind the biological control method of managing with pest Insects?



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**12.** Explain the role of microbes in sewage treatment.



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**13.** Why is cattle dung used to produce biogas ?



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**14.** What are biofertilizers ? Give two examples.



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**15.** Write a note on baculoviruses as biological control agent.



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**16.** How does Baker's yeast help in production of bread?



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**17.** How do the cyanobacteria serve as main source of biofertilizer?



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**18.** What is Sewage? Differentiate between primary and secondary treatment of sewage.



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**19.** Explain the process of alcoholic fermentation.



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**20.** Why are Biofertilizers preferred to Chemical fertilizers.



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**21.** What do you know about Curdling of Milk?



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**22.** Describe the various Biological methods for the control of insects pest.



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**23.** Discuss the concept to IPM.



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



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



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**26.** Expand LAB.



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**27.** What are Biofertilizers? What are the advantages of using biofertilizers in agriculture.



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**28.** Explain the role of microbes in industrial production.



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**29.** Discuss the role of microbes in the production of household products.



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**30.** How can micro-organisms be used to decrease the use of chemical fertilizers and pests?



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



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**32.** Explain the role of microbes in sewage treatment.



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**33.** Write a note on municipal sewage treatment.



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**34.** What are the uses of biogas plant? Draw a well labelled diagram of typical biogas plant.



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**35.** What are transgenic bacteria? Illustrate using any one example.



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**36.** What is the significance of bio-reactor?



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**37.** Write any four optimum conditions provided by a good bio-reactor



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**38.** Why is Rhizobium categorized as a 'symbiotic bacterium'? How does it act as a biofertiliser ?



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**39.** Name any three species of fungus, which are used in production of antibiotics?



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**40.** For the brain haemorrhage of patient, the doctor prescribed a biomolecule enzyme. Name the enzyme. Mention the source of industrial production of this molecule. What is its role here?



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**41.** Give one example and one use of the following :-

Free living fungi



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**42.** Give one example and one use of the following :-

Symbiotic fungi



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**43.** Give one example and one use of the following :-

Free living bacteria.



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



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# Short Answer Type Questions Most Expected Questions

1. Give the example of N,-fixers as :

Symbiotic bacteria



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2. Give the example of N,-fixers as :

Free living bacteria



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**3. Give the example of N,-fixers as :**

Fungal (mycorrhiza)



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**4. Give the example of N,-fixers as :**

Cyanobacteria



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5. How bacteria develop resistance to antibiotics.



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6. Some industrial products are derived from fungi. Name the fungi



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7. Which bacterium contains insecticidal crystal protein-thurioside and kills a wide range of insects?



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8. Name the classes of organisms that produce antibiotics.



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**9.** Name source of Statins and how do statins lower blood cholesterol ?



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**10.** Name an immunosuppressive agent.



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**11.** Differences between primary sludge and activated sludge.



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**12.** During the secondary treatment of the primary effluent how does the significant decrease in BOD occur ?



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**13.** Give reason :

Bottled fruit juices bought from the market

are clearer as compared to those made at home.



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**14.** Give reason :

Large holes are found in 'Swiss cheese'.



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**Long Answer Type Questions**

1. Describe the process of Symbiotic Biological Nitrogen fixation.



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2. Write explanatory note on biological nitrogen fixation.



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3. Discuss the role of microbes as Biofertilizers.





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4. Enumerate the role of microbes in producing some house hold products.



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## Long Answer Type Questions Most Expected Questions

1. Explain the role of microbes in the treatment of sewage.



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2. Explain the production of biogas by microbes and its advantages.



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