



BIOLOGY

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

MICROBES IN HUMAN WELFARE

Important Questions

1. Big holes in Swiss cheese are made by



Watch Video Solution

2. What are fermentors?



[Watch Video Solution](#)

3. 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](#)

4. PVC is used for



[Watch Video Solution](#)

5. An important characteristic that hemichordates share with chordates is



[Watch Video Solution](#)

6. Compare and contrast the advantages and disadvantages of production of genetically

modified crops.



Watch Video Solution

7. Name any two industrially important heterogeneous catalytic reactions mentioning the catalysts used.



Watch Video Solution

8. Name an Immuno suppressive Agent. From where it is obtained?



[Watch Video Solution](#)

9. How is the mycorrhizal association helpful in absorption of water and minerals in plants?



[Watch Video Solution](#)

Very Short Answer Questions

1. Big holes in Swiss cheese are made by



[Watch Video Solution](#)

2. What are fermentors?



[Watch Video Solution](#)

3. 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](#)

4. Secondary sewage treatment is mainly a



[Watch Video Solution](#)

5. PVC is used for



[Watch Video Solution](#)

6. Write the most important characteristic that *Aspergillus niger*, *Clostridium butylicum* and *Lactobacillus* share.



 [Watch Video Solution](#)

7. Compare and contrast the advantages and disadvantages of production of genetically modified crops.



[Watch Video Solution](#)

8. Name any two industrially important heterogeneous catalytic reactions mentioning the catalysts used.



[Watch Video Solution](#)

9. Name an Immuno suppressive Agent. From where it is obtained?



Watch Video Solution

10. What is the use of bar screen at sewage treatment plant?



Watch Video Solution

11. Name the scientists who were credited for showing the role of Pencillin as an antibiotic.



Watch Video Solution

Short Answer Questions

1. Mycorrhizal hyphae prove useful to the plant by



Watch Video Solution

2. Group of bacteria used in biogas production is

 [Watch Video Solution](#)

3. What are Biofertilisers ? Write a brief note on them.

 [Watch Video Solution](#)

Long Answer Questions

1. Secondary treatment in sewage treatment is



[Watch Video Solution](#)

Exercise

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. Ganga Action Plan for controlling pollution in Ganges started in



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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

8. Three water samples namely river water, untreated sewage water and secondary effluent discharged 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 20mg/L, 8mg/L and 400mg/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](#)

9. 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](#)

10. 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

11. 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

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



Watch Video Solution

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



Watch Video Solution