



## **BIOLOGY**

# BOOKS - VIKRAM PUBLICATION ( ANDHRA PUBLICATION)

## MICROBES IN HUMAN WELFARE

**Important Questions** 

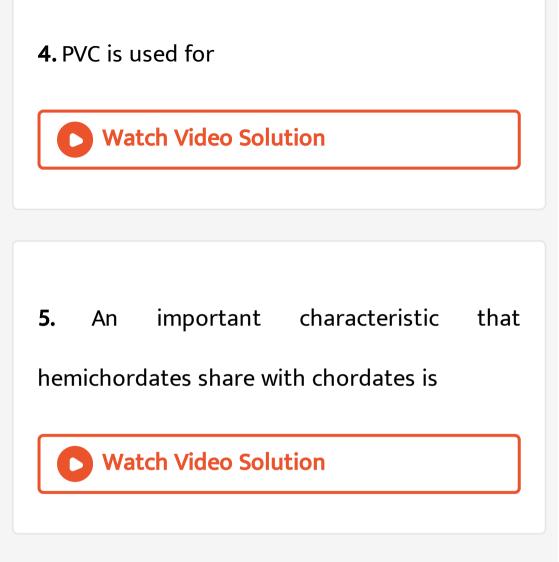
1. Big holes in Swiss cheese are made by

2. What are fermentors?

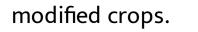
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**3.** Find out the name of the microbes from which Cyclosporin A (an immunosuppressive drug) and Statins (blood cholesterol lowering agents) are obtained.





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



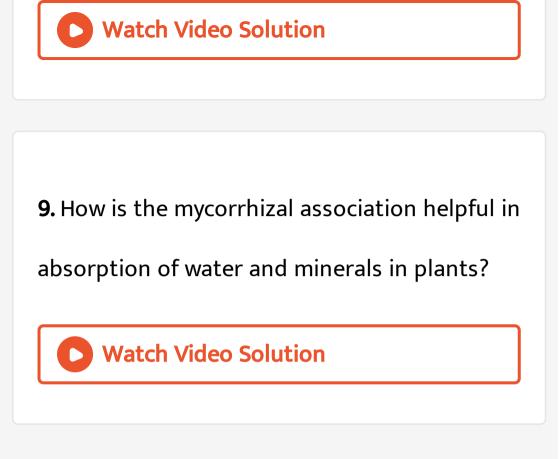


7. Name any two industrially important heterogeneous catalytic reactions mentioning the catalysts used.

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8. Name an Immuno suppressive Agent. From

where it is obtained?



## Very Short Answer Questions

1. Big holes in Swiss cheese are made by

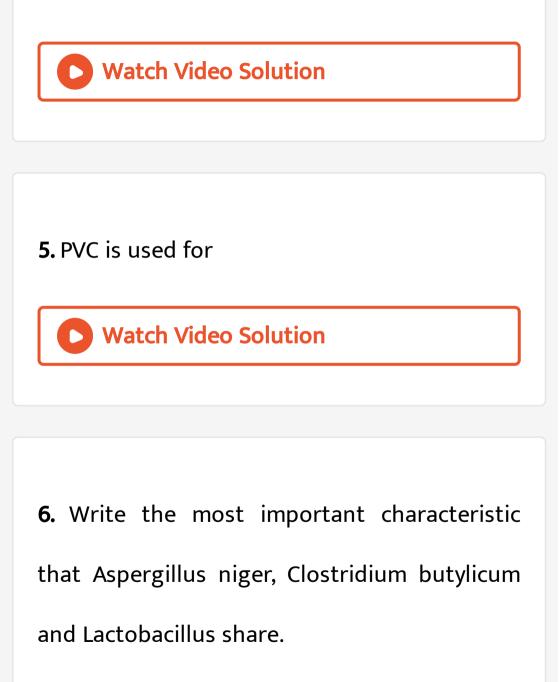
#### 2. What are fermentors?

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



### 4. Secondary sewage treatment is mainly a



6



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

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



9. Name an Immuno suppressive Agent. From

where it is obtained?

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10. What is the use of bar screen at sewage

treatment plant?

11. Name the scientists who were credited for

showing the role of Pencillin as an antibiotic.



**Short Answer Questions** 

1. Mycorrhizal hyphae prove useful to the plant

by

2. Group of bacteria used in biogas production

is



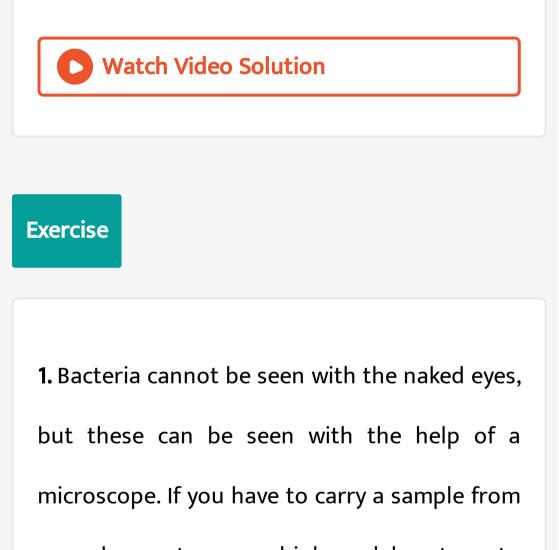
3. What are Biofertilisers ? Write a brief note

on them.

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Long Answer Questions

1. Secondary treatment in sewage treatment is



your home to your biology laboratory to

demonstrate the presence of microbes under

a microscope, which sample would you carry

and why?



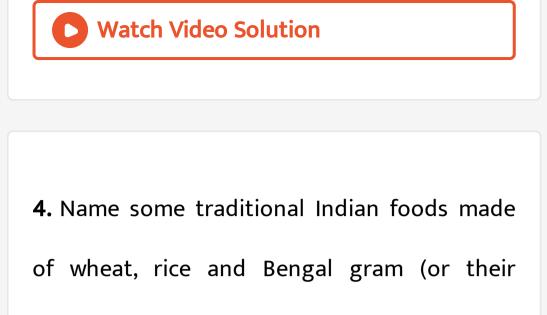
2. Give examples to prove that microbes

release gases during metabolism.

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3. Ganga Action Plan for controlling pollution

in Ganges started in



products) which involve use of microbes.

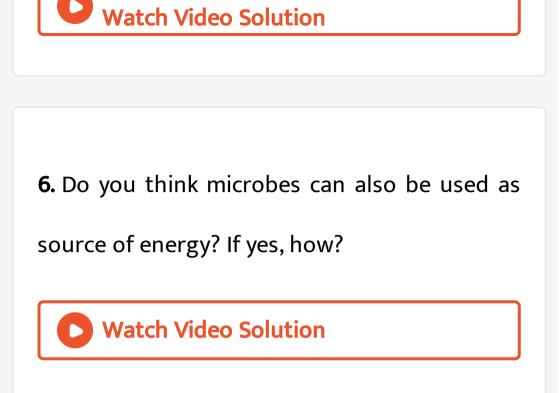


5. In which way have microbes played a major

role in controlling diseases caused by harmful

bacteria?





7. Microbes can be used to decrease the use of

chemical fertilisers and pesticides. Explain how

this can be accomplished.



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?



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

(a) Single cell protein (SCP)

(b) Soil



**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

12. What is sewage? In which way can sewage

be harmful to us?



13. What is the key difference between primary

and secondary sewage treatment?