



### BIOLOGY

## BOOKS - VIKRAM PUBLICATION ( ANDHRA PUBLICATION)

## ECOLOGY AND ENVIRONMENT

Very Short Answer Type Questions

1. The term "ecology" was first used by

<b>2.</b> What is an ecological population ?
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<b>3.</b> Define population and community.
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<b>4.</b> What is an eco-system?
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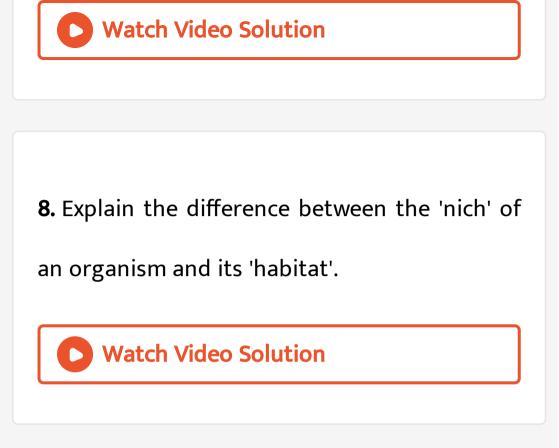
5. Distinguish between eco-system and biome.

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**6.** What is biome? Name any two biomes you studied.

**O** Watch Video Solution

7. What is meant by ecosphere ?



**9.** A population has more genetically similar organisms than-an biotic community. , Justify the statement.

**10.** The fish belongs to the species Catla catla living at a given time? How do the fish living in Antarctic waters manage to keep their body fluids from freezing ?

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**11.** How does your body solve the problem of altitude sickness,' when you ascend talls mountains ?



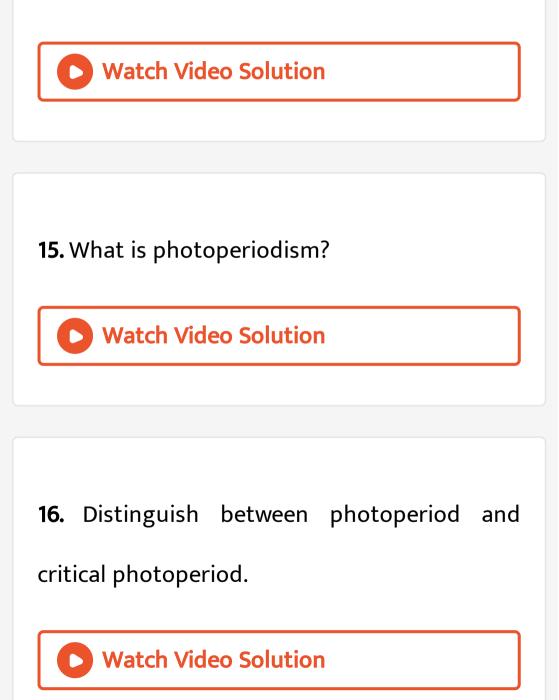


pigmentation ?



**13.** Distinguish the terms phototaxis and photokinesis.

14. What are circadian rhythms?



#### 17. Mention the advantages of some UV rays to

us.

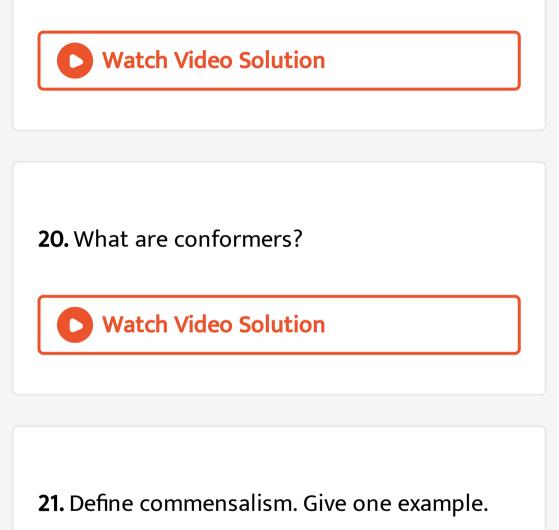


## **18.** What is cyclomorphosis ? Explain its

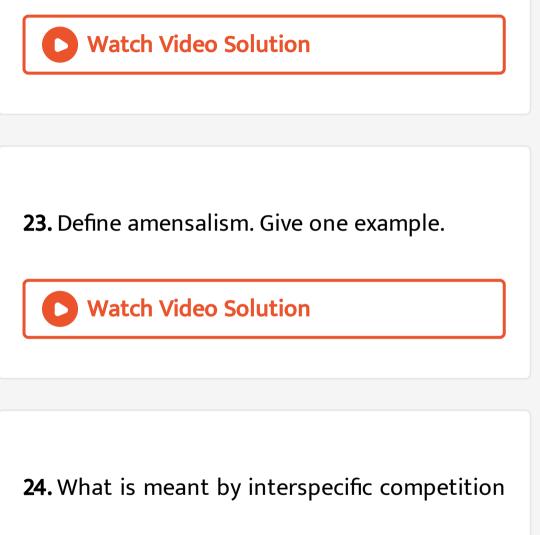
importance in Daphnia.



**19.** What are 'regulators' ?

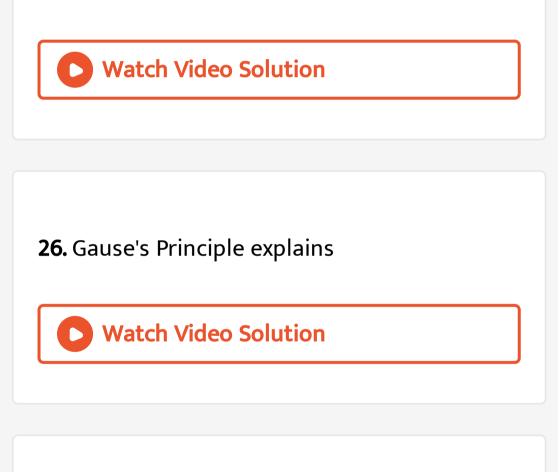


**22.** Define mutualism. Give one example.



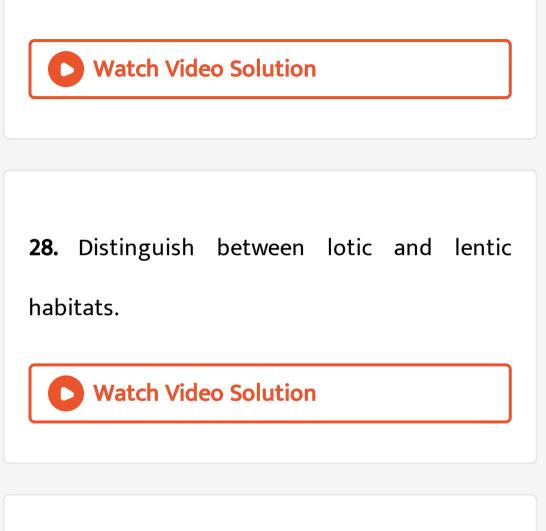
? Give one example

**25.** What is camouflage ? Give its significance.



**27.** Fungus in Association with A is called lichen and in association with B is called





29. What is zone of compensation in an

aquatic eco system?



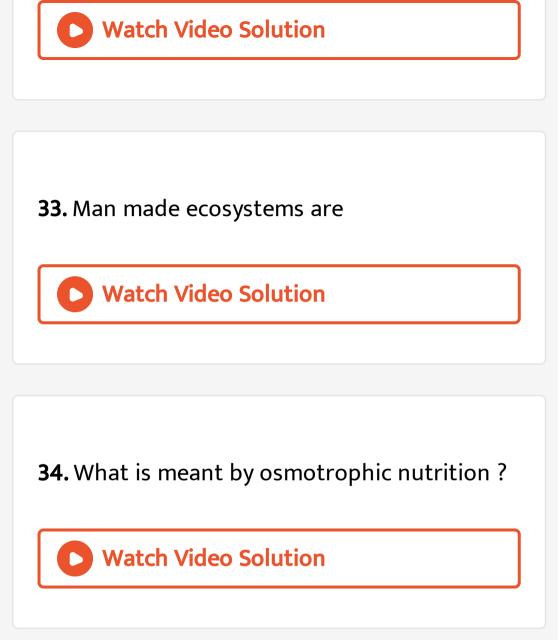
**30.** Distinguish between phytoplankton and zooplankton.



### 31. Distinguish between neuston and nekton.



**32.** What is.periphyton. ?



35. Explain the process of leaching of alumina

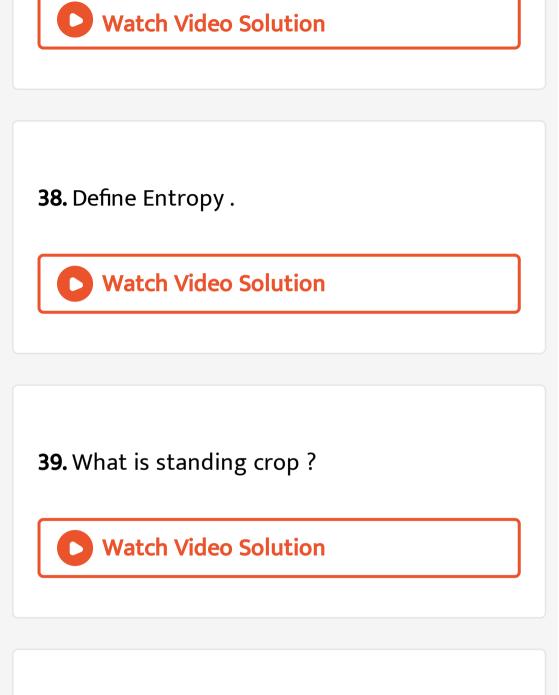
from bauxite.



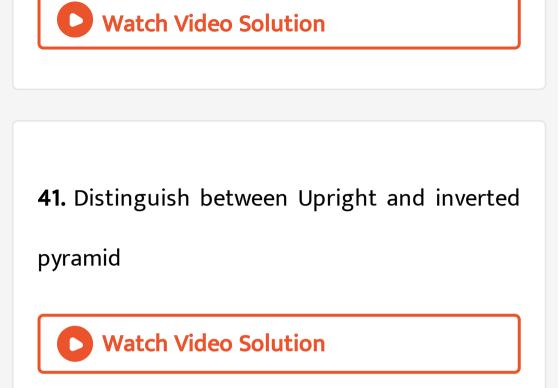
36. What is PAR ?

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**37.** What is the percentage of PAR, in the incident solar radiation ?

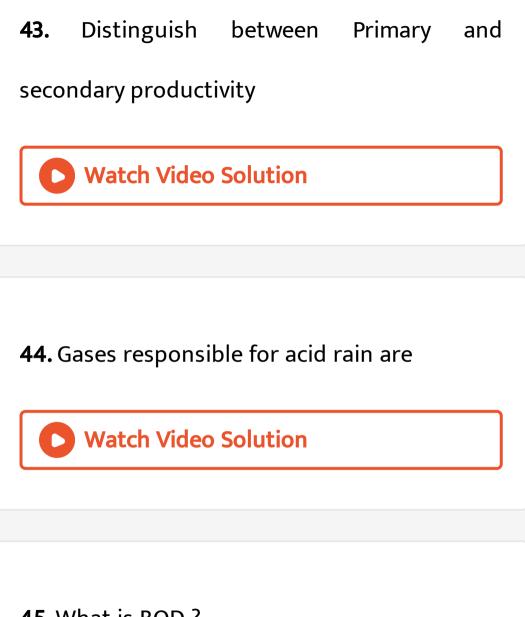


**40.** Explain the terms GPP, NPP ?



### **42.** Distinguish between Litter and detritus





45. What is BOD ?

**46.** What is biological magnification ? Will the level of this magnification be different at different levels of the ecosystem ?

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**47.** Why are incinerators used in hospitals?

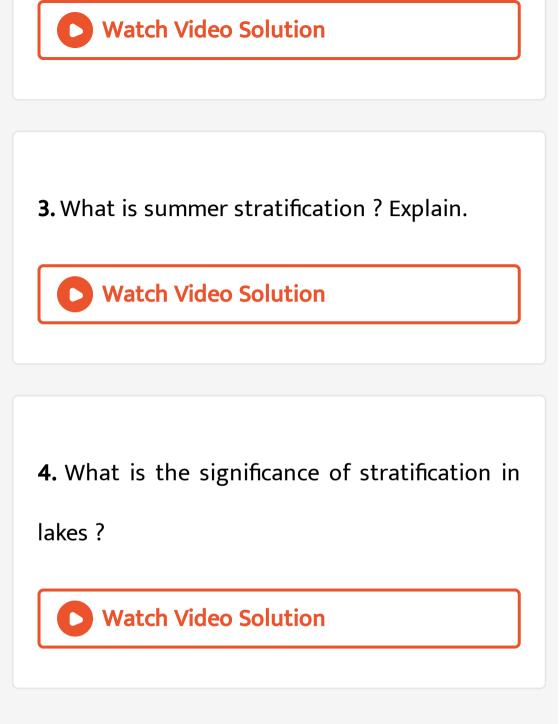
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Short Answer Type Questions

1. Considering the benefits of a constant internal environment to the organism we tend to ask ourselves why the conformers had not evolved to become regulators ?

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**2.** The individuals who have fallen through the ice and been submerged under cold water for long periods can sometimes be revived - explain.



5. Explain Vant' Hoff rule.



6. Unlike mammals the reptiles cannot tolerateenvironmental fluctuations in temperature.How do they adapt to survive in desertconditions ?

7. How do terrestrial animals protect themselves from the danger of dehydration of bodies?



8. How do marine animals adapt to hypertonic

sea water?

9. Discuss the various type of adaptations in

fresh water animals.

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10. Compare the adaptations of animals with

fresh water and sea waer mode of life.



11. Distinguish between eurthaline and stenohaline animals.
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**12.** Many tribes living in high altitude of Himalayas normally have higher red blood cell count (or) total haemoglobin than the people living in the plains. Explain ?

**13.** An orchid plant is growing on the branch of mango tree. How do you describe this interaction between the orchid and the mango tree?

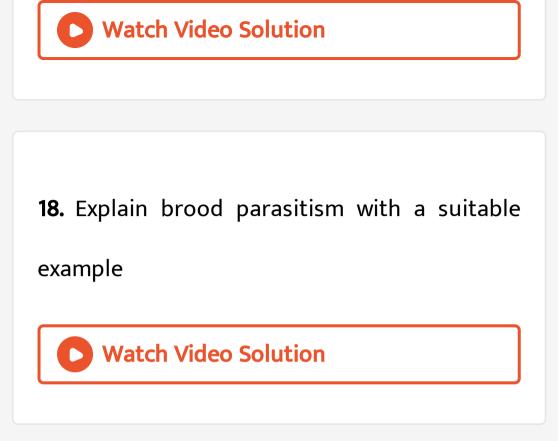


14. Predation is not an association. Support

the statement.

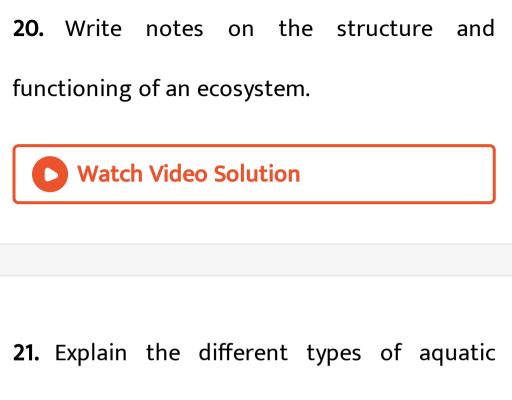
15. What is the ecological principle behind the biological control method of managing with pest insects? Watch Video Solution 16. Discuss competitive release Watch Video Solution 17. Write a short note on the parasitic

adaptations.



### 19. How do predators act as biological control





ecosystems?

22. Explain the different types of terrestrial ecosystems.

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23. Discuss the main reason for the low

productivity of ocean.



24. Explain the terms saprotrophs detritivores

and mineralizers.

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25. Define decomposition and describe the

processes and products of decomposition.

26. Write a note on DFC. Give its significance in

a terrestrial ecosystem.

Watch Video Solution

**27.** What is primary productivity ? Give a brief description of the factors that affect primary productivity.

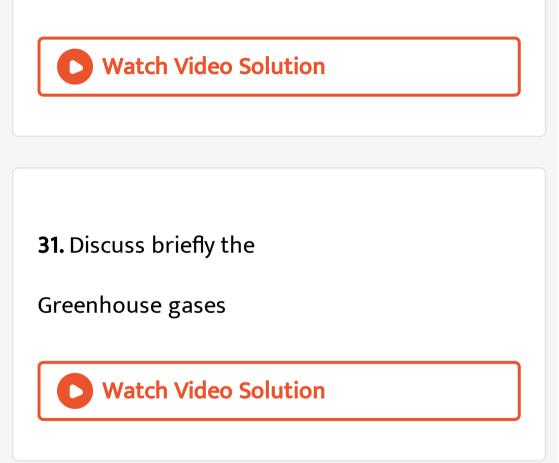
**28.** Define ecological pyramids and describe with examples pyramids of number and biomass.



# **29.** What are the deletorious effects of depletion of ozone in the stratosphere?

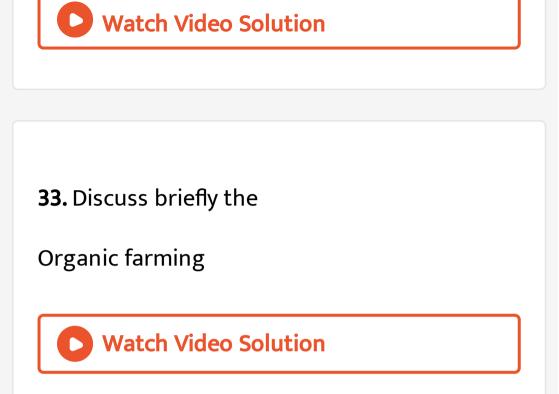


**30.** Describe 'Green House' Effect.



32. Discuss briefly the

Noise pollution



34. Discuss briefly the

Municipal solid wastes

**35.** Discuss the causes and effects of global warming. What measures need to be taken to control global warming?

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**36.** Write critical notes on the following:

- (a) Eutrophication
- (b) Biological magnification
- (c) Groundwater depletion and ways for its

replenishment

**37.** Write critical notes on the

Eutrophication

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### Long Answer Questions

1. Write an essay on temperature as an

ecological factor

2. Write an essay on water as an ecological

factor.



**3.** Describe lake as an ecosystem giving examples for the various zones and the biotic

components in it.

4. Describe different types of food chains that

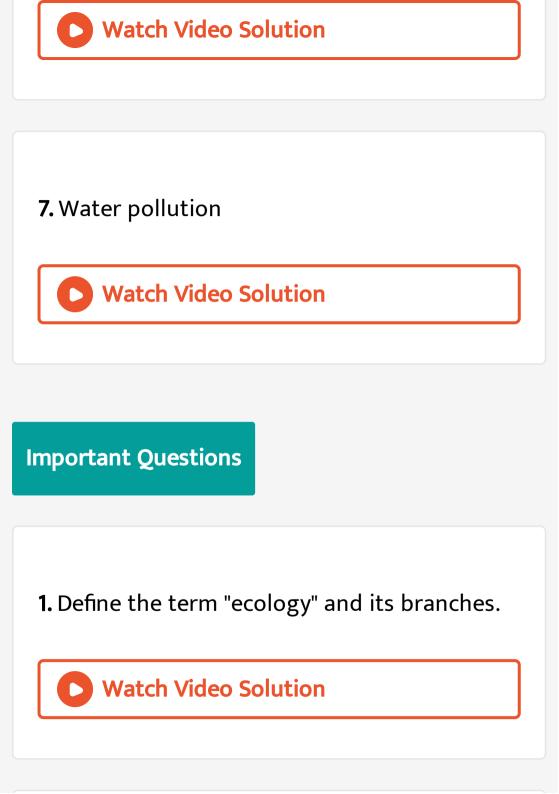
exist in an ecosystem.



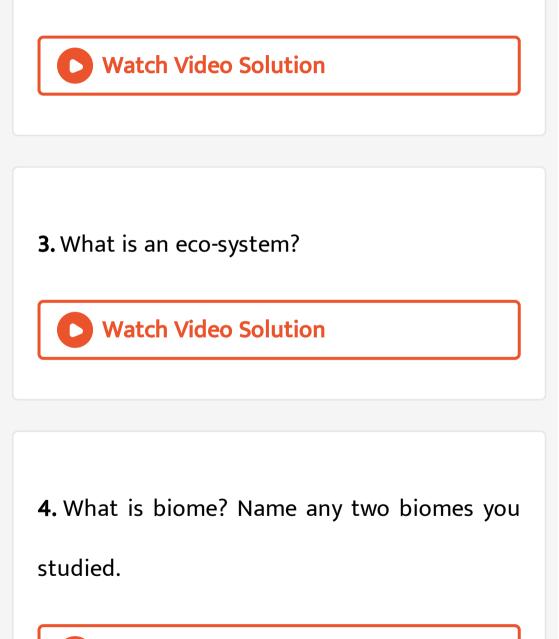
**5.** Give an account of energy flow in an ecosystem.

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**6.** List out the major air pollutants and describe their effects on human beings.



**2.** Define a community.





5. What is meant by ecosphere ?

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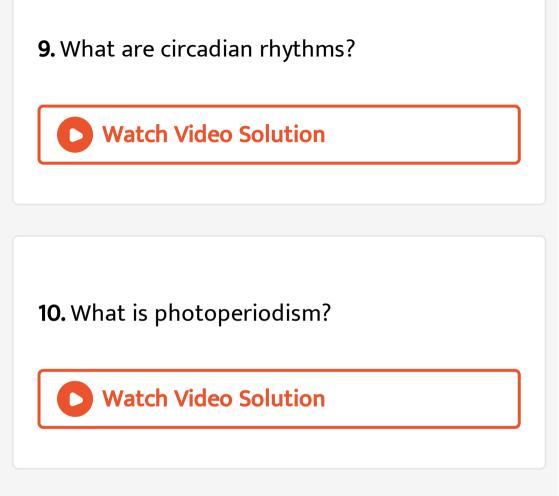
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an organism and its 'habitat'.

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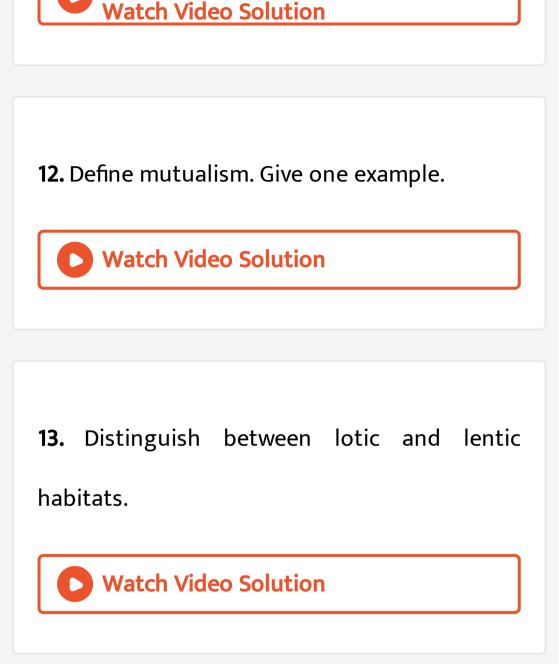
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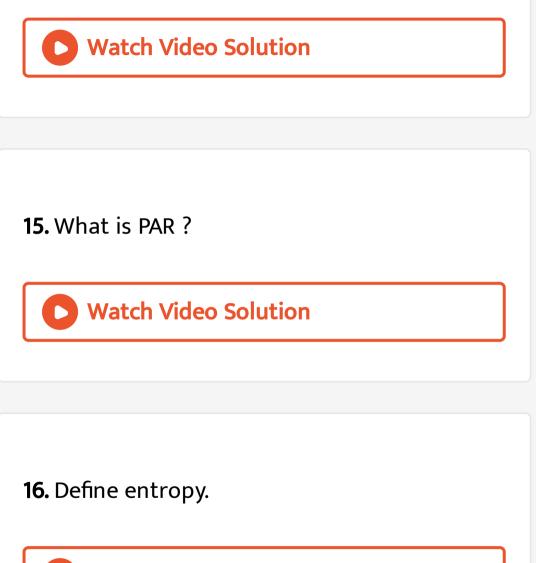
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**14.** What is.periphyton. ?



17. Distinguish between upright and inverted

ecological pyramids.



18. Distinguish between litter and detritus

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**19.** Distingulish between primary and secondary productivity.



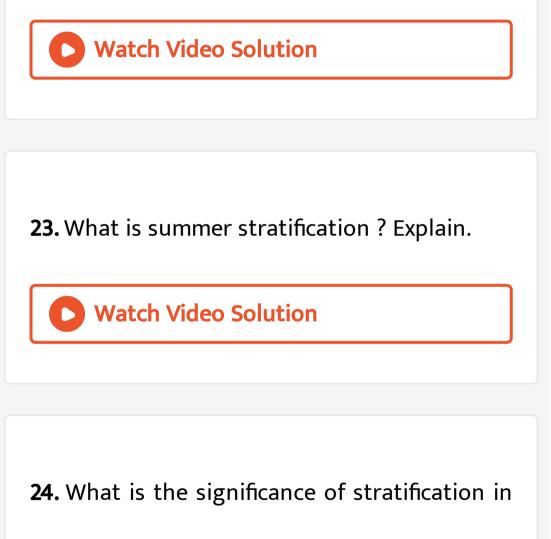
## **20.** Which air pollutants are mainly responsible for acid rasns?

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## **21.** What is BOD?



**22.** What is biological magnification ?



lakes ?

### 25. Explain Vant' Hoff rule.

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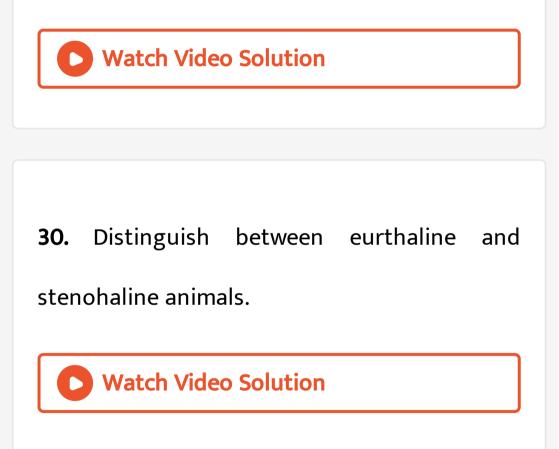
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Watch Video Solution

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33. Write a short note on the parasitic adaptations.
Watch Video Solution

34. Write notes on the structure and

functioning of an ecosystem.

**35.** Discuss the main reason for the low

productivity of ocean.

Watch Video Solution

36. Explain the terms saprotrophs detritivores

and mineralizers.



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**38.** Define ecological pyramids and describe with examples, pyramids of numbers and biomass.

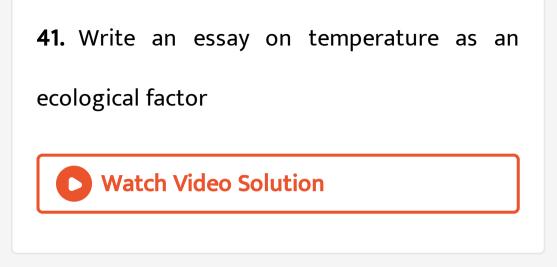


39. What are the deletorious effects of

depletion of ozone in the stratosphere?



**40.** Which is incorrect about .green house effect.



**42.** Describe lake as an ecosystem giving examples for the various zones and the biotic components in it.

43. Describe different types of food chains that

exist in an ecosystem.

Watch Video Solution

44. Give an account of tlow of energy in an

ecosystem.



45. What are the causes of water pollution and

suggest measures for control of water pollution ?