



## **BIOLOGY**

# NCERT - NCERT Biology(Telugu)

# Adaptations in Different Ecosystems



1. What do you understand by adaptations in

organisms and why do they adapt?

2. Are there any rivers meeting in the Bay of

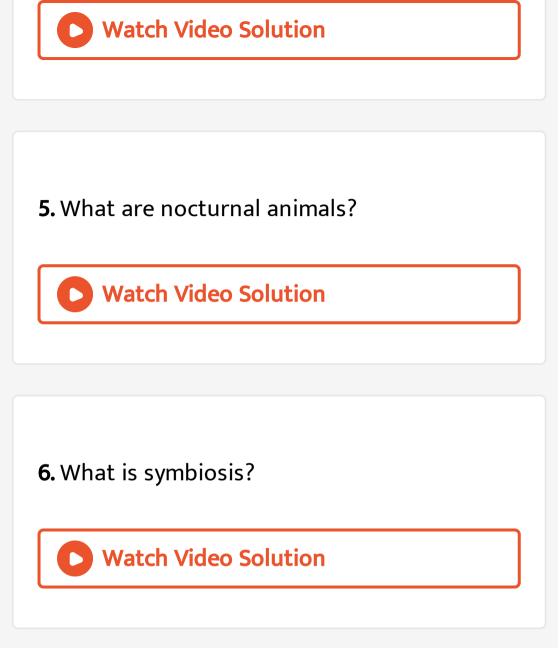
Bengal in the coringa ecosystem?

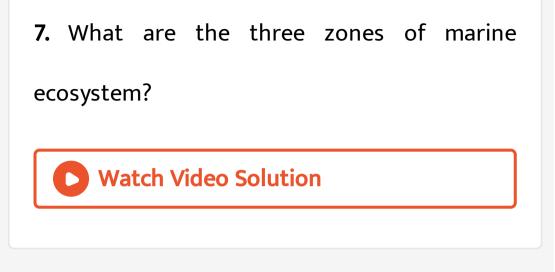


#### 3. What do you mean by an ecosystem?



**4.** What are xerophytes?





#### 8. What type of biotic conditions do you find in

these(marine ecosystem) zones?



**9.** What will affect adaptations to marine life other than the conditions mentioned (marine ecosystem)above?



10. What happens to the temperature and

pressure as depth increases?

11. Which zone(marine ecosystem) has more

animals?

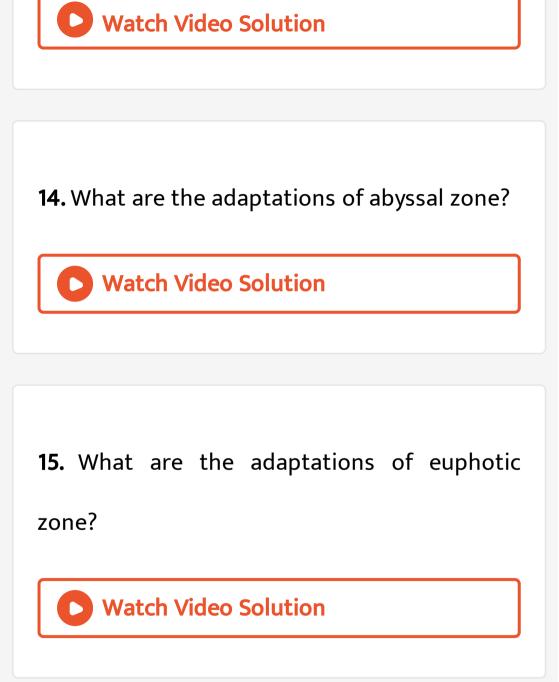
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12. What are the adaptations of euphotic

zone?



13. What are the adaptations of bathyal zone?

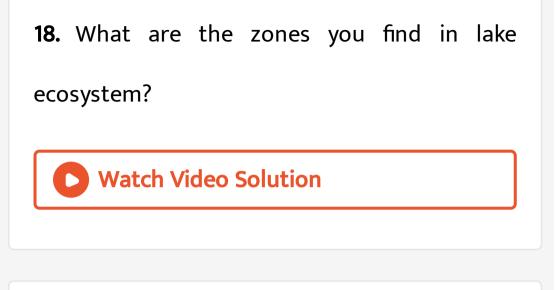


16. What are the adaptations of abyssal zone?



**17.** What differences can you find in the animals to bathyl zone when compared to animals to euphotic and abyssal zones.





**19.** What are the factors which effects the availability of organisms?

20. What is littoral zone? What type of organisms are available in this zone?
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21. What is limnetic zone? What type of

organisms are available in this zone?

22. What is profundal zone? What type of organisms are available in this zone?
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23. What are the type of aquatic ecosystems?

Give reasons.



24. What are the adaptations of fishes?



**25.** The aquatic ecosystem of coringa mangrove region would be less saltier than the bay. Do you agree to this why? Why not?

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**26.** What are the adaptations you find in camel?

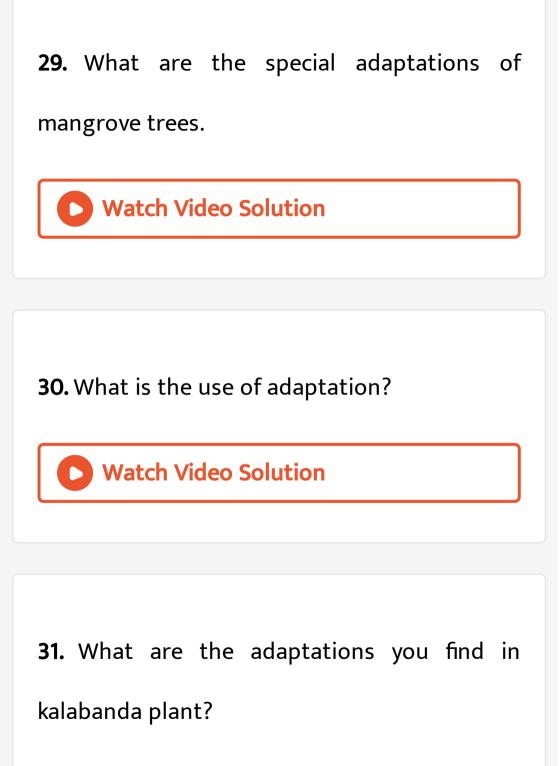


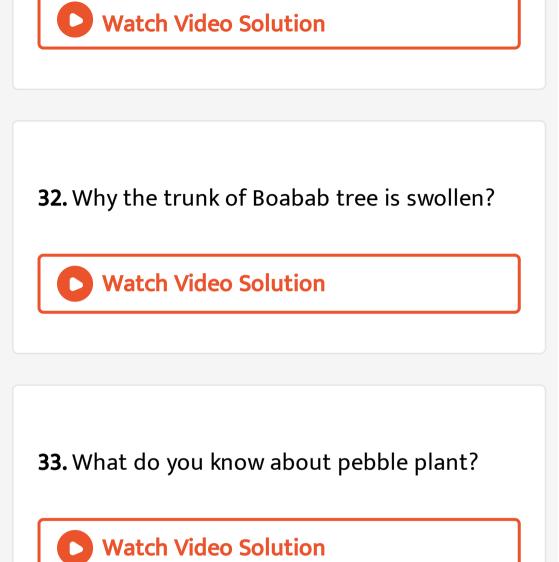
**27.** What are the special adaptations of planktons?

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28. What special adaptations can be seen in

dolphins?





34. Do all animals living in desert conditions

show adaptations?

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**35.** Why some animals have scales on their body?



36. Why the animals that lives in burrows usually wander during night time only?
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**37.** What are the adaptations of marine mammals?



**38.** How do fishes swim?



### **39.** What are the adaptations you find in

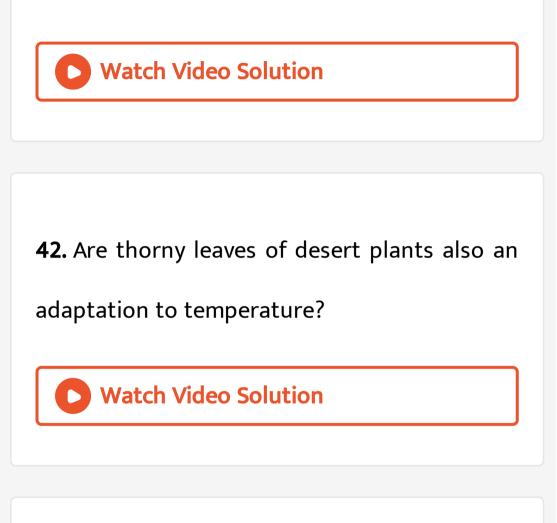
animals to cope with the temperature?

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40. Why birds live in and around ponds have

webbed feet?

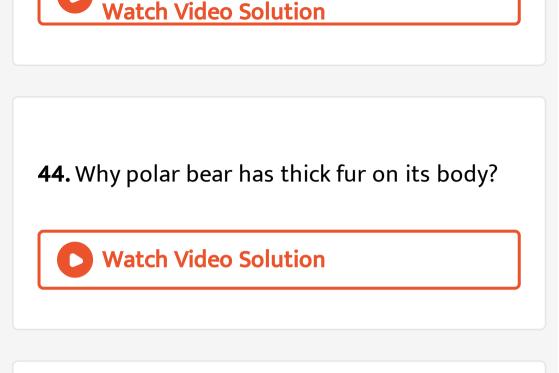
**41.** Why cranes have legs and long beaks?



43. What are the adaptations to temperature

we find in animals?





**45.** In what way thick skin helps the seal to protect from cold weather?

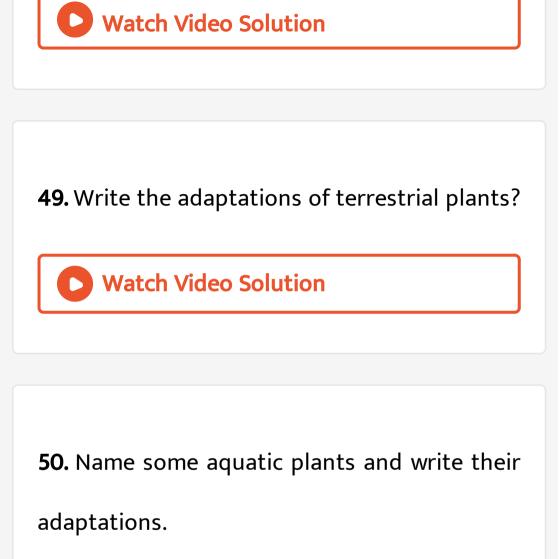
46. What are the adaptations of algae and fungi colonies?
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**47.** Is there any relation betweeen type of food

taken and the structure of(birds) beak?



**48.** How planktons float on water?





**51.** Collect some aquatic plants-cut the leaves and stems. Observe them under microscope and record your observations like air presence/absence of air spaces etc and answer the below:

Why do they float on water?

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52. Collect some aquatic plants-cut the leaves

and stems. Observe them under microscope

and record your observations like air presence/absence of air spaces etc and answer the below:

What make them float?



Watch Video Solution

**53.** Collect some aquatic plants-cut the leaves and stems. Observe them under microscope and record your observations like air presence/absence of air spaces etc and answer the below:

Are there any other reasons for their floating?



**54.** Collect some aquatic plants-cut the leaves and stems. Observe them under microscope and record your observations like air presence/absence of air spaces etc and answer the below:

Draw a diagram of what you have observed under microscope?





55. Can you give some examples of fleshy

leaves plants?

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56. Why xerophytic plants do not have broad

leaves?

**57.** You may see kittanara, a xerophytic plant, grown as fence around crop fields in some areas in our state. Actually those places are not deserts. How can they grow there?



58. Does Pulikat lake of Nellore come under

fresh water ecosystem or not? Why?

**59.** Visit a nearby pond or a lake. Record the organisms you have observed and their adaptations.



**60.** What are the adaptations you find in aquatic environment?

61. In what way flexible stem is useful to the

aquatic plants?

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62. How marine fishes cope up with the salinity

of marine water?



63. How fresh water fishes cope up with the

salinity of marine water?

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64. Can fishes in estuarine ecosystem survive

in river as well as sea?

65. How are marine ecosystems different from

fresh water ones?

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**66.** Write two types of adaptations you find in marine ecosystem different from fresh water ecosystem.

67. Which zone do you think, when compared

to marine ecosystem, is absent in fresh water

ecosystem?



68. What would be a major factor leading to

different types of adaptations in marine and

fresh water ecosystems?

69. Draw a lake showing different zones. Why

are they called so?



70. Draw the diagram of T.S. of stem of aquatic

plant.

71. With the help of two examples, explain how

these organisms have adapted themselves in

the ecosystem?



72. If an animal of euphotic zone has to survive

in abyssal zone, what adaptations are required

to survive there?

73. Marine water fish drink more water than

fresh water fish. Do you agree with it? Justify.



**74.** Amphibians are wonderful creatures on the earth. How do you appreciate their adaptations?

**75.** Some animals and plants survive only in certain conditions. Now-a-days, human activities cause damage to these conditions. What do you think about this?

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**76.** In this chapter on ecosystem, we had studied about the mangrove ecosystems. What kind of abiotic conditions did you study in them?





77. How is coringa ecosystem different from

the marine ecosystem you studied.



78. The Murrel and Rohu are fishes found in

rivers. Will they be able to live in the Coringa

ecosystem. Give reasons for your answer.



**79.** Crocodile, alligator are both the same? Actually they are not similar. Do you find any difference between them? What are they?



**80.** Collect information of one lake from internet and prepare table or organisms at

different zones.



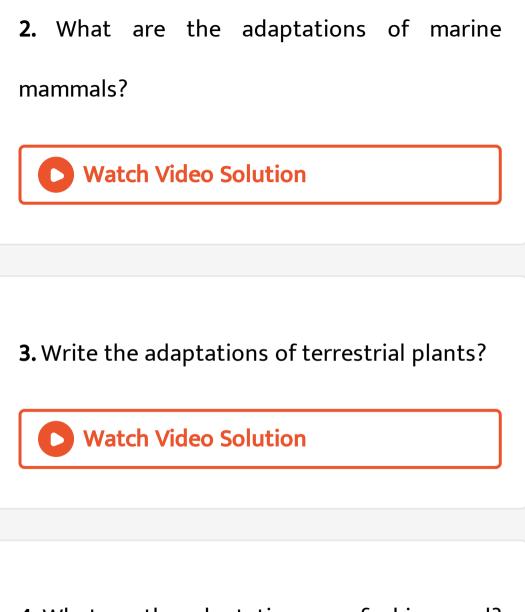
**81.** Write the effect of temperature on the organisms adapted in a lake and pond in a tabular form.





1. What do you understand by adaptations in

organisms and why do they adapt?



**4.** What are the adaptations you find in camel?

5. With the help of two examples, explain how these organisms have adapted themselves in the ecosystem?

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**6.** Crocodile, alligator are both the same? Actually they are not similar. Do you find any difference between them? What are they?



**7.** What are the special adaptations of mangrove trees.

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**8.** Why the leaves of kalabanda are reduced to spines?

A. Protection

B. To kill enemies

C. To reduce water loss

D. None of the above

#### Answer:

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## 9. What is the use of hump in camel?

A. To store water

B. To store food

C. Stores fat for later use

D. None of the above



**10.** A costal body of water connected to the ocean and supplied with fresh water from a river is an.....

A. Shelf

B. Inlet

C. Estuary

D. Atoll



**11.** What is the term for members of multiple species living in an area and interacting?

A. Ecosystem

B. Ecotone

C. Biome

D. Community



**12.** What is the term for all of the biotic and abiotic components of a system?

A. Ecosystem

B. Ecotone

C. Biome

D. Community



# **13.** Which of the following is a marine adaptation?

A. Symbiosis

**B.** Hibernation

C. Aestivation

D. Photosynthesis



# **14.** Which of the following is a part of marine ecosystem?

A. Bathyl zone

B. Lenthic zone

C. Lothic zone

D. Euphotic





## 15. The abyssal zone is present between

A. A. 0-200 m

- B. B. 200m 2000m
- C. C. 2000-6000m
- D. D. None of the above

Answer:



**16.** Pulikat lake of Nellore is.....ecosystem.

A. Marine

B. Fresh water

C. Terrestrial

D. None of the above

**Answer:** 

17. .....fishes take more water.

A. Fresh water fishes

B. Marine fishes

C. Deep sea fishes

D. Estuarine fishes

Answer:

1. What do you understand by adaptations in

organisms and why do they adapt?

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2. With the help of two examples, explain how

these organisms have adapted themselves in

the ecosystem?

3. What special adaptations can be seen in the

following organisms?

mangrove trees



# 4. What special adaptations can be seen in the

following organisms?

camel

5. What special adaptations can be seen in the

following organisms?

fish



## 6. What special adaptations can be seen in the

following organisms?

dolphins

7. What special adaptations can be seen in the

following organisms?

planktons.

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8. If an animal of euphotic zone has to survive

in abyssal zone, what adaptations are required

to survive there?

9. Marine water fish drink more water than
fresh water fish. Do you agree with it? Justify.
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**10.** Write the effect of temperature on the organisms adapted in a lake and pond in a tabular form.

11. In this chapter on ecosystem, we had studied about the mangrove ecosystems. What kind of abiotic conditions did you study in them?

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12. How frogs protect themselves from cold

and heat

**13.** The Murrel (korramatta) and Rohu are fishes found in rivers. Will they be able to live in the Mangroove forest ecosystem? Give reasons for your answer.



**14.** Collect some aquatic plants-cut the leaves and stems. Observe them under microscope and record your observations like air presence/absence of air spaces etc and answer the below:

Why do they float on water?



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**17.** Visit a nearby pond or a lake. Record the organisms you have observed and their adaptations.



**18.** Collect information of one lake from internet and prepare table or organisms at

different zones.



**19.** Are there any rivers meeting in the Bay of Bengal in the Mangroove forest ecosystem collect information and make a note on them?

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20. Draw a lake showing different zones. Why

are they called so?

21. Amphibians are wonderful creatures on the

earth. How do you appreciate their

adaptations?

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**22.** How do you appciated the processing protection pebble plants from the enemies?

23. Some animals and plants survive only in certain conditions. Now-a-days, human activities cause damage to these conditions. What do you think about this?

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**Think And Discuss** 

1. Can you give some examples of fleshy leaves

plants?



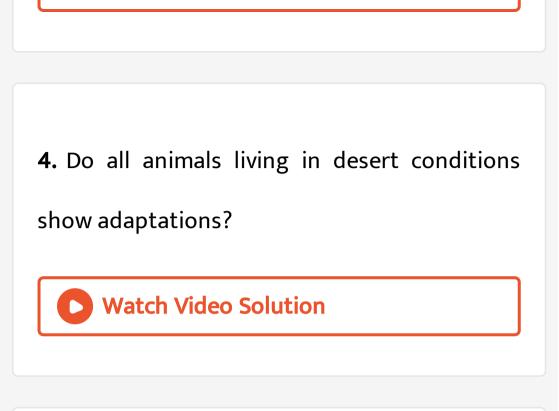


2. Why xerophytic plants do not have broad

leaves?



**3.** You may see kittanara, a xerophytic plant, grown as fence around crop fields in some areas in our state. Actually those places are not deserts. How can they grow there?



5. Why some animals have scales on their

body?

6. Why the animals that lives in burrows usually wander during night time only?

7. In Jelly fishes, Decomposers which organism

do you think is present in euphotic zone?

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8. What kinds of adaptations can be seen in

the organisms of the euphotic zone?



9. What kind of adaptations can be seen in the

organisms of abyssal zone?



**10.** What differences can you find in the animals to bathyl zone when compared to animals to euphotic and abyssal zones.



## 11. How do the organisms of different zones in

marine ecosystem are adapt?



12. Organisms of the oceans have a lesser salt content in their bodies than the sea water which has around 3.5%. The fluid could drain out of the body of the organism into the sea. This could be dangerous and fatal to the organism. How do they survive under such conditions?



13. Can fishes in estuarine ecosystem survive in

river as well as sea?