



BIOLOGY

NCERT - NCERT Biology(Telugu)

Adaptations in Different Ecosystems

Example

1. What do you understand by adaptations in organisms and why do they adapt?



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2. Are there any rivers meeting in the Bay of Bengal in the coringa ecosystem?



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3. What do you mean by an ecosystem?



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4. What are xerophytes?



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5. What are nocturnal animals?



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6. What is symbiosis?



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7. What are the three zones of marine ecosystem?



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8. What type of biotic conditions do you find in these(marine ecosystem) zones?



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



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10. What happens to the temperature and pressure as depth increases?



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11. Which zone(marine ecosystem) has more animals?



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12. What are the adaptations of euphotic zone?



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13. What are the adaptations of bathyal zone?



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14. What are the adaptations of abyssal zone?



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15. What are the adaptations of euphotic zone?



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16. What are the adaptations of abyssal zone?



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



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18. What are the zones you find in lake ecosystem?



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



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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?



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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.



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24. What are the adaptations of fishes?



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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?



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27. What are the special adaptations of planktons?



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28. What special adaptations can be seen in dolphins?



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29. What are the special adaptations of mangrove trees.



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30. What is the use of adaptation?



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31. What are the adaptations you find in kalabanda plant?



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32. Why the trunk of Boabab tree is swollen?



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33. What do you know about pebble plant?



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34. Do all animals living in desert conditions show adaptations?



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35. Why some animals have scales on their body?



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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?



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38. How do fishes swim?



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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?



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41. Why cranes have legs and long beaks?



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42. Are thorny leaves of desert plants also an adaptation to temperature?



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43. What are the adaptations to temperature we find in animals?





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44. Why polar bear has thick fur on its body?



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



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46. What are the adaptations of algae and fungi colonies?



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47. Is there any relation between type of food taken and the structure of (birds) beak?



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48. How planktons float on water?



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49. Write the adaptations of terrestrial plants?



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50. Name some aquatic plants and write their adaptations.



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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?



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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?



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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?



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55. Can you give some examples of fleshy leaves plants?



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56. Why xerophytic plants do not have broad leaves?



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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?



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58. Does Pulikat lake of Nellore come under fresh water ecosystem or not? Why?



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



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



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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?



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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?



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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.



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67. Which zone do you think, when compared to marine ecosystem, is absent in fresh water ecosystem?



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68. What would be a major factor leading to different types of adaptations in marine and fresh water ecosystems?



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69. Draw a lake showing different zones. Why are they called so?



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



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



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72. If an animal of euphotic zone has to survive in abyssal zone, what adaptations are required to survive there?



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73. Marine water fish drink more water than fresh water fish. Do you agree with it? Justify.



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



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75. Some animals and plants survive only in certain conditions. Now-a-days, human activities cause damage to these condtions.

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?





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77. How is coringa ecosystem different from the marine ecosystem you studied.



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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.



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79. Crocodile, alligator are both the same?

Actually they are not similar. Do you find any difference between them? What are they?



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



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



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Exercise

1. What do you understand by adaptations in organisms and why do they adapt?



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2. What are the adaptations of marine mammals?



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3. Write the adaptations of terrestrial plants?



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4. What are the adaptations you find in camel?



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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?



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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

Answer:



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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

Answer:



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

A. Ecosystem

B. Ecotone

C. Biome

D. Community

Answer:



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

A. Ecosystem

B. Ecotone

C. Biome

D. Community

Answer:



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13. Which of the following is a marine adaptation?

A. Symbiosis

B. Hibernation

C. Aestivation

D. Photosynthesis

Answer:



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

- A. Bathyl zone
- B. Lentic zone
- C. Lothic zone
- D. Euphotic

Answer:



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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:



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

A. Marine

B. Fresh water

C. Terrestrial

D. None of the above

Answer:



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17.fishes take more water.

A. Fresh water fishes

B. Marine fishes

C. Deep sea fishes

D. Estuarine fishes

Answer:



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Improve Your Learning

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?



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3. What special adaptations can be seen in the following organisms?

mangrove trees



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4. What special adaptations can be seen in the following organisms?

camel



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5. What special adaptations can be seen in the following organisms?

fish



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6. What special adaptations can be seen in the following organisms?

dolphins



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7. What special adaptations can be seen in the following organisms?
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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



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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.



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



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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?



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



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



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23. Some animals and plants survive only in certain conditions. Now-a-days, human activities cause damage to these condtions.

What do you think about this?



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Think And Discuss

1. Can you give some examples of fleshy leaves plants?



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2. Why xerophytic plants do not have broad leaves?



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3. You may see kattanara, 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?



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4. Do all animals living in desert conditions show adaptations?



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5. Why some animals have scales on their body?



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



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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?



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9. What kind of adaptations can be seen in the organisms of abyssal zone ?



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



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11. How do the organisms of different zones in marine ecosystem are adapt?



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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?



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13. Can fishes in estuarine ecosystem survive in river as well as sea?



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