



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

ADAPTATIONS IN DIFFERENT ECOSYSTEMS

Exercise

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?

planktons.



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



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9. How frogs protect themselves from cold and heat



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10. 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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11. 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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12. 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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13. Draw a lake showing different zones. Why are they called so?



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



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



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



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17. Why xerophytic plants do not have broad leaves?



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



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19. Why some animals have scales on their body?



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



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21. In Jelly fishes, Decomposers which organism do you think is present in euphotic zone?



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22. What kinds of adaptations can be seen in the organisms of the euphotic zone?



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



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



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



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



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28. What is habitat ?



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29. Is a tree habitat only for a crow ?



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30. In what way is an ecosystem different from habitat ?



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31. You may know animals that live in water. You see some of them everyday. Do you find in them any suitable characters adapted to live in water ? Write a note on them.



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32. In what way flexible stem is useful to the aquatic plants?



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33. How many zones are there on the basis of light penetration?



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



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



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36. How do webbed feet help water animals?



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37. Why cranes have legs and long beaks?



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38. How are marine ecosystems different from fresh water ones?



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



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



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



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42. Do all the leaves have the same shape?



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



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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. Explain the different types of aquatic ecosystems ?



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47. Give the names of fresh water reservoirs and lakes in our state.



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48. What is adaptation?



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49. What is transpiration ?



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50. Name the oceanic zone that is most productive.



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51. Give some examples of aquatic habitats.



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52. Give some examples of terrestrial habitats.



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53. What are nocturnal animals?



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54. What are xerophytes?



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55. What are the three zones of marine ecosystem?



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



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



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



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



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60. What are the type of aquatic ecosystems?

Give reasons.



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61. What is the use of adaptation?



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



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



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64. What is bioluminescence ?



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65. What does ecosystem deal with?



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66. What are nocturnal animals?



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67. Write a short note on electric eel.



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68. What are the adaptations seen in animals living in polar regions ?



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69. 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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70. What is symbiosis?



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71. What is hibernation?



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72. If you want to know more about flow of energy in an ecosystem, what questions do you ask?



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73. What are the general aquatic adaptation in animals and plants ?



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74. What are the adaptations of marine mammals?



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75. What are the three zones of marine ecosystem?



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76. What are the adaptations in Aquatic plants?



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77. What are the adaptations in hydrilla that give an advantage over other native plants?



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78. Write a brief note on lichens.



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79. what did charles darwin observe in Galapagos islands?



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80. Write about symbiosis and camouflage.



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



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82. 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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83. Pneumatophores of mangrove trees helps
in

A. photosynthesis

B. root respiration

C. transpiration

D. absorption

Answer:



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84. Nowadays these plants are grown as ornamental plants.

A. hydrophytes

B. xerophytes

C. both A and B

D. none

Answer:



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85. The fat storing part of a camel is

A. hump

B. stomach

C. skin

D. all the above

Answer:



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86. The desert animal of North America which can live without drinking water through out its life is

A. sand grouse

B. fennec fox

C. kangaroo rat

D. golden mole

Answer:



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87. Animal that emit a high pitched sound which bonuses off objects to find prey is

A. cuttlefish

B. bat

C. cricket insect

D. cat

Answer:



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88. Identify the marine ecosystem.

A. ponds

B. streams

C. rivers

D. oceans

Answer:



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89. In these organisms droplets of oil in their cells are present to keep them float.

A. planktons

B. dolphins

C. larger plants

D. fishes

Answer:



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90. For every 10 meters depth in water pressure increases by -

- A. one atmosphere
- B. two atmospheres
- C. three atmospheres
- D. four atmospheres

Answer:



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91. In whales and seals oxygen mostly stored in

A. lungs

B. muscle tissue

C. skin

D. all the above

Answer:



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92. Aquatic organisms-adapted the ability to travel long distances

A. sperm whales

B. herring gills

C. both A and B

D. none

Answer:



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93. Zones present in the marine ecosystem

A. euphotic zone, bathyal zone

B. bathyal zone, abyssal zone

C. abyssal zone, euphotic zone

D. euphotic zone, bathyal zone, abyssal
zone

Answer:



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94. Photosynthetic activity is maximum in this zone.

A. bathyal zone

B. euphotic zone

C. abyssal zone

D. all the above

Answer:



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95. The zone in marine ecosystem which is dark and cold throughout the year ?

A. abyssal zone

B. bathyal zone

C. euphotic zone

D. bathyal and abyssal zone

Answer:



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96. Electric eel is capable of, generating power electric shocks of up to

A. 500 volts

B. 600 volte

C. 700 volts

D. 400 volts

Answer:



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97. Identify the salt water lake.

A. Kolleru

B. Pulikat of Nellore

C. Osman Sagar

D. Shamirpet lake

Answer:



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98. The factors effect the organisms in fresh water ecosystem

A. light salt content

B. food

C. oxygen

D. all the above

Answer:



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99. The salt content of sea water is

A. 0.028

B. 0.025

C. 0.035

D. 0.038

Answer:



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100. Fresh water fishes Have

- A. low salt content in the body
- B. higher internal salt content in the body
- C. both A and B
- D. very low salt content in the body

Answer:



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101. Some plants in temperate regions shed their leaves before the

A. winter

B. summer

C. autumn

D. rainy season

Answer:



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102. Symbiotic association is seen between animals of ocean.

A. whales, herring gulls

B. clown fish, sea anemone

C. ray fish, sea anemone

D. whale, clown fish

Answer:



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103. What is the use of hump in camel?

A. To store food

B. To store water

C. Stores fat for later use

D. All the above

Answer:



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

A. Ecosystem

B. Ecotone

C. Biome

D. Community

Answer:



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105. Which of the following is a marine adaptation?

A. Hibernation

B. Aestivation

C. Photosynthesis

D. Symbiosis

Answer:



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

A. Inlet

B. Shelf

C. Estuary

D. Atoll

Answer:



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107. 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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108. The abyssal zone is present between

A. 0 - 200m

B. 200m - 2000m

C. 2000 - 6000m

D. None of the, above

Answer:



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109. Kolleru.lake of East Godavari is an example
for-

A. Marine ecosystem

B. Fresh water ecosystem

C. Terrestrial ecosystem

D. Esturine ecosystem

Answer:



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

A. Bathyl zone

B. Lentic zone

C. Lothic zone

D. Euphotic zone

Answer:



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111.fishes take more water.

A. Fresh water fishes

B. Marine fishes

C. Deep sea fishes

D. Esturine fishes

Answer:



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112. The respiratory organs of fish

A. Fins

B. Nose

C. Gills

D. Lungs

Answer:



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113. Identify the biotic component among the following.

A. Air

B. Soil

C. Water

D. Plants

Answer:



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114. Identify the abiotic components from the following.

A. Animals

B. Fungi

C. Plants

D. Water

Answer:



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115. Which of the following take part in symbiosis of Lichen ?

A. Fungus - Fungus

B. Algae - Algae

C. Alga - Fungus

D. Fungus - Gymnosperm

Answer:



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116. Which of the following is a Xeric plant?

A. Hydrilla

B. Vallisneria

C. Opuntia

D. Balsam

Answer:



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117. Darwin observed the variations in Finch birds

A. West-Indies islands

B. Indonesia

C. Malasia

D. Galapagos Islands

Answer:



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118. Example for Camouflage is

A. Frogs

B. Fishes

C. Chameleon

D. Dragon fly

Answer:



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119. We can see arenchyma in these plants

A. Xerophytes

B. Lichens

C. Mesophytes

D. Hydrophytes

Answer:



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120. Example for Xerophytes

A. Agave

B. Opuntia

C. Cactus

D. All the above

Answer:



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121. Mosses, water lilly, hydrilla are seen in

- A. Littoral zone
- B. Limnetic zone
- C. Profundal zone
- D. None

Answer:



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122. Crustaceans, crabs, fishes like eels, snails, turtles, etc are present in

- A. Littoral zone
- B. Profundal zone
- C. Limnetic zone
- D. None

Answer:



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