



### **BIOLOGY**

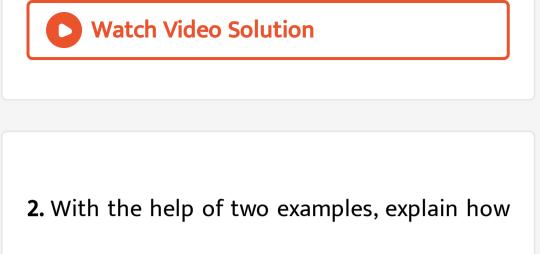
## **BOOKS - VGS PUBLICATION-BRILLIANT**

# ADAPTATIONS IN DIFFERENT ECOSYSTEMS



1. What do you understand by adaptations in

organisms and why do they adapt?



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

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

following organisms?

fish

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.

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

**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?



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?

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?

15. How do you appciated the processing protection pebble plants from the enemies?
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16. Can you give some examples of fleshy

leaves plants?

17. Why xerophytic plants do not have broad

leaves?

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18. Do all animals living in desert conditions

show adaptations?

19. Why some animals have scales on their body?Watch Video Solution

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

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?

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.



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?



27. Can fishes in estuarine ecosystem survive in

river as well as sea?

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28. What is habitat ?

29. Is a tree habitat only for a crow?

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#### 30. In what way is an ecosystem different from

habitat ?

**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?

33. How many zones are there on the basis of

light penetration?



34. What happens to the temperature and

pressure as depth increases?

35. Which zone(marine ecosystem) has more

animals?



**36.** How do webbed feet help water animals?

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

38. How are marine ecosystems different from

fresh water ones?



#### 39. Write two types of adaptations you find in

marine ecosystem different from fresh water

ecosystem.



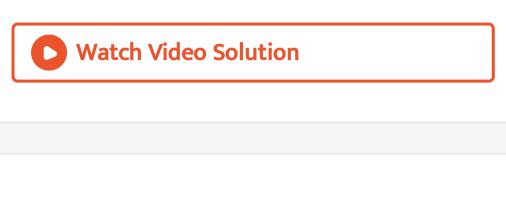
**40.** Which zone do you think, when compared to marine ecosystem, is absent in fresh water ecosystem?

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**41.** What would be a major factor leading to different types of adaptations in marine and

fresh water ecosystems?

**42.** Do all the leaves have the same shape?



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?

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

**46.** Explain the different types of aquatic ecosystems ?

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 ?

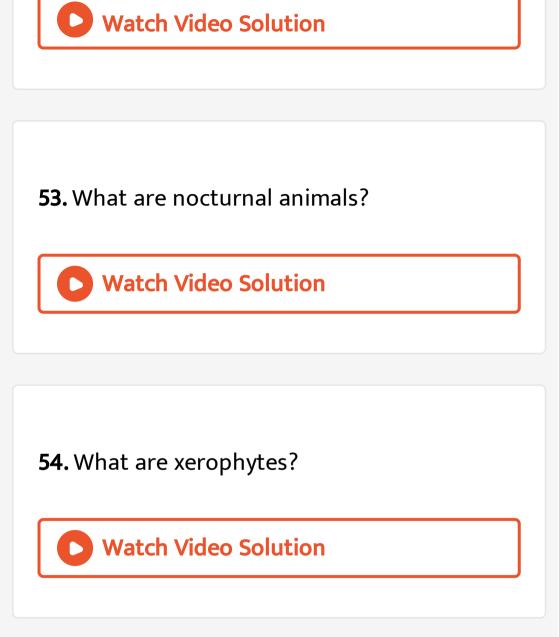
**50.** Name the oceanic zone that is most productive.



#### **51.** Give some examples of aquatic habitats.



52. Give some examples of terrestrial habitats.



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?

57. What happens to the temperature and

pressure as depth increases?

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58. Which zone(marine ecosystem) has more

animals?



59. What are the factors which effects the

availability of organisms?

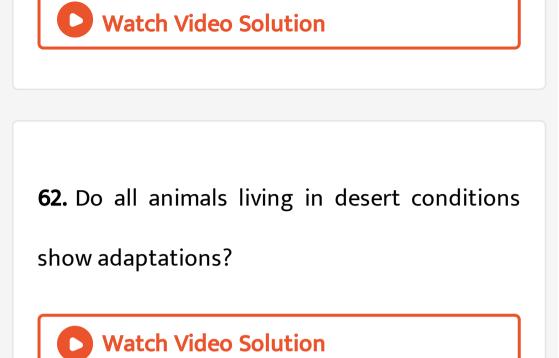
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60. What are the type of aquatic ecosystems?

Give reasons.



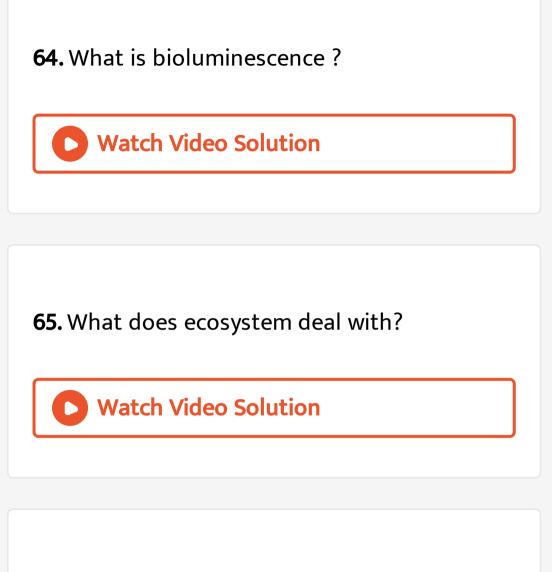
61. What is the use of adaptation?



63. Which zone do you think, when compared

to marine ecosystem, is absent in fresh water

ecosystem?



**66.** What are nocturnal animals?

**67.** Write a short note on electric eel.

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68. What are the adaptations seen in animals

living in polar regions ?

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



#### 70. What is symbiosis?



#### 71. What is hibernation?



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

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73. What are the general aquatic adaptation in

animals and plants ?

**74.** What are the adaptations of marine mammals?

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**75.** What are the three zones of marine ecosystem?

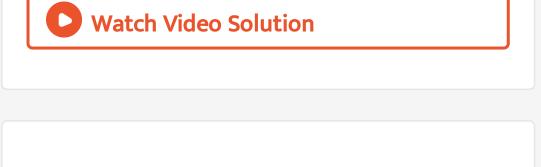
76. What are the adaptations in Aquatic plants?

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.



**79.** what did charles darwin observe in Galapagos islands?

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**80.** Write about symbiosis and camouflage.

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?



83. Pneumatophores of mangrove trees helps

in

A. photosynthesis

B. root respiration

C. transpiration

D. absorption

## Answer:

84. Nowadays these plants are grown as

ornamental plants.

A. hydrophytes

B. xerophytes

C. both A and B

D. none

Answer:

**85.** The fat storing part of a camel is

A. hump

B. stomach

C. skin

D. all the above

Answer:

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

A. sand grouse

B. fennec fox

C. kangaroo rat

D. golden mole

# Answer:

**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:

**88.** Identify the marine ecosystem.

A. ponds

B. streams

C. rivers

D. oceans

**Answer:** 

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:

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

A. one atmosphere

B. two atmospheres

C. three atmospheres

D. four atmospheres

Answer:

91. In whales and seals oxygen mostly stored in

A. lungs

B. muscle tissue

C. skin

D. all the above

Answer:

92. Aquatic organisms-adapted the ability to

travel long distances

A. sperm whales

B. herring gills

C. both A and B

D. none

#### Answer:

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:

94. Photosynthetic activity is maximum in this

zone.

A. bathyal zone

B. euphotic zone

C. abyssal zone

D. all the above

#### Answer:

95. The zone in marine ecosystem which is

dark and cold throughput the year ?

A. abyssal zone

B. bathyal zone

C. euphotic zone

D. bathyal and abyssal zone

Answer:

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:

97. Identify the salt water lake.

A. Kolleru

B. Pulikat of Nellore

C. Osman Sagar

D. Shamirpet lake

Answer:

98. The factors effect the organisms in fresh

water ecosystem

A. light salt content

B. food

C. oxygen

D. all the above

#### Answer:

99. The salt content of sea water is

A. 0.028

B. 0.025

C. 0.035

D. 0.038

#### **Answer:**



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. Lenthic 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 pari 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





**117.** Darwin observed the variations in Finch birds .....

A. West-Indies islands

B. Indonesia

C. Malasia

D. Galapagos Islands





118. Example for Camouflage is .....

A. Frogs

**B.** Fishes

C. Chameleon

D. Dragon fly

Answer:



# 119. We can see arenchyma in these plants .....

A. Xerophytes

B. Lichens

C. Mesophytes

D. Hydrophytes

Answer:

120. Example for Xerophytes .....

A. Agave

B. Opuntia

C. Cactus

D. All the above

#### **Answer:**

121. Mosses, water Iilly, hydrilla are seen in .....

A. Littoral zone

B. Limnetic zone

C. Profundal zone

D. None

Answer:

122. Crustaceans, crabs, fishes like eels, snails,

turtles, etc are present in

A. Littoral zone

B. Profundal zone

C. Limnetic zone

D. None

Answer: