



BIOLOGY

BOOKS - VGS BRILLIANT BIOLOGY (TELUGU ENGLISH)

OUR ENVIRONMENT-OUR CONCERN

Conceptual Understanding

1. What happens to the amount of energy transferred from one step to the next in a

food chain?



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2. What do pyramids and food chain indicate in an ecosystem?



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3. Write a short note on pyramid of number for any food chain. What can we conclude from this pyramid of numbers?

(i) tree

(ii) insect

(iii) woodpecker



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4. What is a pyramid of numbers? Write a brief note on the pyramid of numbers with the help of a block diagram.



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5. What is biomass? Draw a pyramid of biomass for the given food chain- (i) grass, leaves
(ii) herbivores
(iii) predators
(iv) hawk.



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6. How is using of toxic material affecting the ecosystem? Write a short note on

bioaccumulation and biomagnifications.



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7. How is using of toxic material affecting the ecosystem? Write a short note on bioaccumulation and biomagnifications.



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8. Should we use pesticides as they prevent our crop and food from pests or we should

think of alternatives? Write your view about this issue and give sound reason for your answer.



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9. What is a trophic level? What does it represent in an ecological pyramid?



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Asking Questions And Making Hypothesis

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



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2. What will happen if we remove predators from food web?



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1. Observe a plant in your kitchen garden, and write a note on producer-consumer relationship.



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Information Skills And Projects

1. What type of information do you require to explain pyramid of biomass?



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Communication Through Drawing Model Making

1. Draw a pyramid of numbers considering yourself as top level consumer.



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Application To Daily Life Concern To Biodiversity

1. Write any two slogans to promote awareness among the people about Ecofriendly programs.



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2. Suggest any three programmes for prevention of soil pollution in view of avoiding pesticides.

In your area, soil is polluted by the enormous

usage of pesticides. Suggest any two programmes for prevention of soil pollution.



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Objective Assignment

1. What does a food chain always start with?

A. The herbivore

B. The carnivore

C. The producer

D. None of these

Answer: C



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2. Which of the following do plants not compete for?

A. water

B. food

C. space

D. all the above

Answer: B



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3. Ban al pesticides, this means that

A. control on usage of pesticides

B. prevention of pesticides

C. promote eco-friendly agricultural

practices

D. stop biochemical factories

Answer: C



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4. According to Charles Epton

A. Carnivores at the top of the pyramid

B. Energy trapping is high at the top of the
pyramid

C. No producers at the top of the pyramid

D. A and C

Answer: D



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Questions Given In The Lesson

1. Name any two pesticides/insecticides you have heard about.



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2. Where from pollutants enter to the water sources?



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3. How can you say fishes living in water having heavy metals in their bodies?



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4. What is the food chain that has been discussed in the above occurrence?



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5. How did these disturbances affect the environment?



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6. Is it right to eradicate a living organism in an ecosystem? How is it harmful?



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7. Were the sparrows really responsible? What was the reason for the fall in crop production?



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8. What was the impact of human activities on the environment?



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9. Are all terrestrial ecosystems similar?



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10. Why most of the food chains consist of four steps?



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11. Why do the number of organisms get decreased as we move from producer to different level of consumes?



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12. How are the food grains and cereals being stored in your house and how do you protect them from pests and fungus?





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13. Researchers found that pollution levels increase during monsoon season. Why they found so?



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14. Why did people also suffer from various disease after consuming fishes living in local water reservoir?



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15. How did the campaign disturb the food chain in the field?



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16. What do you suggest to stop/avoid the disturb the food chain in the field?



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17. If we want to show a food chain consisting of grass, rabbit, snake and hawk then connect the given picture in textbook of organisms by putting arrows and make a food chain.

(A). Name the producers and consumers in the above food chain.

(B) Try to guess what the arrows marked by you are indicating.

(C) Identify atleast four other food chains from your surroundings.



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18. Draw the pyramid of number for the following food chains.

(i) Banyan \rightarrow insects \rightarrow woodpecker

(ii) Grass \rightarrow rabbit \rightarrow wolf

* Are the pyramid of numbers having same structure in both of the above two cases as compare to the example given in the paragraph?



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19. Think why are the pyramids always upright?



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20. Observe the data given in the following table:



Answer the following question Q. In which year lake-water speared area is more ? Why?



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21. Observe the data given in the following table:



Answer the following question Q. How do you think weeds are more in the lake?



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22. Observe the data given in the following table:



Answer the following question Q. What are the reasons for decrease in lake area?



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23. Observe the data given in the following table:



Answer the following question Q. how do the above reasons lead to pollution?



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24. Observe the data given in the following table:



Answer the following question Q. how was the threat to the lake due to pollution discovered?



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25. Observe the data given in the following table:



Answer the following question Q. What could

be the reasons for the migration of birds to this lake?



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26. Observe the following table showing different activities in the lake and their influence.



Legend: (+) means have influence on the mentioned problem.

(-) means has no influence on the mentioned

problem.

Q. What are the factors that affected the number of migratory birds to decrease?



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27. Observe the following table showing different activities in the lake and their influence.



Legend: (+) means have influence on the mentioned problem.

(-) means has no influence on the mentioned problem.

Q. What are the reasons for chemical problems?



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28. Observe the following table showing different activities in the lake and their influence.



Legend: (+) means have influence on the

mentioned problem.

(-) means has no influence on the mentioned problem.

Q. What happens if the dissolved oxygen reduces in lake water?



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29. Observe the following table showing different activities in the lake and their influence.



Legend: (+) means have influence on the mentioned problem.

(-) means has no influence on the mentioned problem.

Q. Is BOD of turbid and nutrient rich water high or low? What are its consequences?



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30. Observe the following table showing different activities in the lake and their influence.



Legend: (+) means have influence on the mentioned problem.

(-) means has no influence on the mentioned problem.

Q. People living in catchment area of Kolleru faced so many problems. why?




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Creative Questions For New Model Paper

1. Complete the following blank.



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2.  ItBrgt Name the top carnivores in the above food web.



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3. 

name the pyramid shown in the above figure.



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4. 

name the primary consumers in the above food web.



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5. 

Complete the blank in the following charge?



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6. Expand D.O.



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7. Expand B.O.D.



[Watch Video Solution](#)

8. Expand C.O.D.



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9. Expand D.D.T.



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10. Expand B.H.S.



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11. Expand EBWR.



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12. Expand MOEF.



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13. Name the scientist with the help of the paragraph.

He was a British ecologist. In the year 1927, he introduced the concept of 'ecological pyramids'.



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14. Complete the blanks.

Any type of plant or animal material that can be converted into energy is called ____ (1). The flow of energy in an ecosystem is always ____ (2).



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15. Complete the blanks.

In an ecological pyramid ___(1) occupy the base and ____ (2) occupy the apex of the pyramid.



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16. Complete the blanks.

The entering of pollutants in a food chain is called ____ (1). The tendency of pollutants to concentrate as they move from one trophic level to another is called ____ (2).



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17. Read the sentence, find the error and rewrite it.

Algae are considered to be the bioindicators of metal pollution.



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18. Which of the following group constitute heavy metals.

(A). Cadmium, Chromium, Nickel, Lead.

(B) Iron, Boron, Silicon, Carbon, Sodium.



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19. Which of the following group constitute the correct order of accumulation of heavy metals in fish?

(A). $Cd > Cr > Fe > Ni > Pb$

(B). $Pb > Cd > Cr > Fe > Ni$



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20. Identify the mis-matched pair.

(1) Minimate-Japan.

(2). MIC gas-Bhopal

(3) Chernobyl-Water pollution



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21. Identify the mis-matched pair.

(1) Crop rotation-Ecofriendly

(2) DDT-Biomagnification

(3) Operation Kolleru-Hunting Dangerous
birds in Kolleru



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22. Complete the blank.



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23. 



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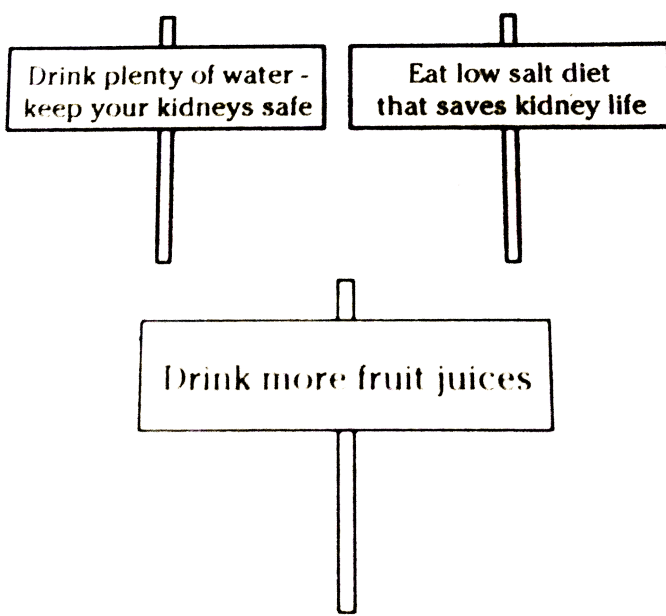
24. Read the given food chain, find the error and rewrite it.

Plants-Frog-Snake-Grasshopper-Hawk.




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25. Observe the placards. Suggest one occasion can you use them in your school.



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26.  ItBrgt Give two examples for T4 trophic level.



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27. Fill in the blanks.

Sparrow campaign was happened in ___() in
the year ___(2)



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28. I am the universal food provider. Every food
chain starts from me. Who am I?



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29. I occupy the top of the pyramid. I stand at the end of every food chain. Who am I?



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30. I am an ecological pyramid. I show the population of organisms at each trophic level in a food chain. Who am I?



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31. I am an ecological pyramid. I represent the quantity of living matter at each trophic level.

Who am i?



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32. Diatoms → zooplankton → Larve → Fish
→ man

Observe the above food chain and identify the tertiary consumer.



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33. Complete the blanks

A food chain always starts with ____ (1) ____ (2)

pyramid of aquatic ecosystemm is not up right?



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34. grass \rightarrow deer \rightarrow Fox \rightarrow Tiger
(6000J) (600J) (60J) (?)

What is the available energy at tiger in the above food chain?



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35. Observe the following placards. When will you use them in your school?



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36. In the year____(1), the government of andhra pradesh, declared kolleru lake as ____ (2).



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37. ____ (1) number of species of birds are migrating to Kolleru lake between the months of ____ (2) from northern Asia and eastern Europe.



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38. ____ (1) and ____ (2) are the major causes of decrease in water area and pollution.



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39. ___(1) is responsible for the growth of excessive and explosive weed growth like ___(2)



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40. What is the main objective of "operation Kolleru" ?



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41. _____(1) is the best method to control pests. _____(2) method is very useful to retain ground water table.



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42. _____(1) is the friend of farmer. It was killed brutally in _____(2) in the year 1958.



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43. MIC disaster: Bhopal, Minimata: (?)



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44. Eutrophication : Sulphates and phosphates: Minimata: (?)



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45. Green plants-Grasshopper-Frog-Snake-Hawk.

name the secondary consumer in the above food chain.



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46. Write the proper of food chain

Eagle → rat → snake → grain

grain → rat → snake → eagle

snake → eagle → rat → grain

rat → snake → grain → eagle



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47. 

In this food chain, the organism which belongs to the second trophic levels is ____

Snake, plant, Grasshopper, frog.



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48. Plant → insect → frog → (?)



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49. Choose the right one for the empty box



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50. Fill the empty box choosing the right one
from the following:



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51. Find out of the missing thing from the table.



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52. The correct sequence of a food chain.

(A) Plant \rightarrow ggrasshopper \rightarrow Frog \rightarrow Snake
 \rightarrow Hawk.

(B) Plant \rightarrow Frog \rightarrow Grasshopper \rightarrow Hawk
 \rightarrow snake.

(C) Plant → Hawk → Snake → Frog →

Grasshopper

(D) Plant → Snake → Frog → Hawk →

Grasshopper.



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53. Plants:Producers::Fromg:(?)



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54. Identify the mismatched pair.

(1) MIC-Bhopal

(2) Methyl mercury-India

(3) Non-biodegradable-Compost.



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55. 

this is an example for pyramid of biomass of



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56. 

In the above food chain, fish occupies ____ level.



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57. This pyramid shows the grassland ecosystem. All the trophic levels are completely destroyed. What might have happened to this ecosystem?



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58. Ecosystem: Tansley:: Ecological
Pyramid_____?_____



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59. 

this flow chart represents



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60. What is the heavy metal that accumulated in higher quantities in the liver, gills and kidney of fish in Edulabad water reservoir (EBWR) ?



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61. 

This photograph tells us about.



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62. If the energy available at tertiary consumer level is 20J in a food chain, how much energy will be available at the primary consumer level ? (10% law)



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Preparation Questions For The Examination Purpose

1. A farmer introduced garden lizards into his agricultural fields to eradicate insects. What

do you name this method ?



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2. Give one example for primary consumer in a grassland ecosystem.



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3. What does the pyramid of number represent?



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4. Who introduced 'Ecological pyramids'?



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5. What does the pyramid of biomass represent?



[Watch Video Solution](#)

6. What does a pyramid of energy represent?



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7. Expand D.D.T.



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8. Expand B.H.C.



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9. Give an example for chemical pesticides.



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10. Give one example for "perfect pesticide".



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11. What do you call the tendency of pollutants to concentrate as they move from one trophic level to next trophic level?



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12. name 'the process of entering of pollutants in a food chain'.



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13. What do you call the substance meant for preventing, destroying or mitigating any pest?



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14. The functional role of an of organism in a community is called as?



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15. The elaborate interconnected feeding relationships in an ecosystem is called



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16. Name the pathway along which food is transferred from trophic level to trophic level beginning with producers.



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17. What occupies the base of any ecological pyramid?



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18. Any food chain in an ecosystem starts from?



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19. What is the source of energy for all ecosystems?



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20. Guess the reason for the growth of mosquito population.



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21. Which ecological pyramid in an aquatic ecosystem is inverted?



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22. Name the disease that occurs due to increase of fluorine contents in drinking water.



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23. The cruel campaign against which bird is initiated in 1958 in china?



Watch Video Solution

24. What are the producers in any ecosystem?



Watch Video Solution

25. What occupies the top portion of any ecological pyramid?



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26. What does the first trophic level of any ecological pyramid comprise of?



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27. What steps do you suggest towards prevention from harmful effects of pesticides?



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28. What happens to the number of organisms as we move from producers to consumers at each trophic level in a given ecosystem?



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29. How can we use biomass as?



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30. How the energy flows from producers to consumers in a food chain?



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31. Name the plant substance that is not digested in human beings.



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32. Name the animal substances that are not digested by most animals.



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33. When did government of india declared the Kolleru lake as Bird sanctuary?



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34. What is reason for the excessive growth of algal blooms and aquatic wweeds in lake kolleru?



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35. What are the water-borne disease common among the inhabitains of lake Kolleru?



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36. what is responsible for 'minimata' disease?



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37. In which country and cruel 'sparrow campaign' took place in 1958 ?



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38. How do fossil fuels form?



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39. What are the abiotic factors of ecosystem?



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40. Name the metal which was bioaccumulated in liver, gills and kidney of fish in Edulabad water reservoir in adilabad district.



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41. What is the name of the aquatic weed that grown in lake kolleru in a great extent?



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42. What percent of energy loss can be observed at each trophic level?



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43. What happens if we remove primary consumers from a given food chain?



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44. Why should we do rotation of crops?



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45. "The ratio between energy flows at different trophic levels among the food chains

expressed as percentage" what is this known as?



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46. In which country minimata disease was first discovered?



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47. Name the fresh water lake of A.P which ws severely polluted due to human activities.



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48. Between october and march how many birds visit kolleru every year?



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49. Who started "Operation Kolleru"?



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50. What is the main objective of "operation Kolleru" ?



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51. Suggest one alternative method in place of pesticides to protect crops ?



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52. By taking two plants of your surroundings as examples, explain how they protect themselves against the animals which eat them.



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53. What happens if decomposers are removed from the foodweb?



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54. Observe the following gives below. Draw the pyramid of numbers.

Grass → Goat → Man



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55. We can't expect the world without sparrows. So how should be our concern towards their conservation?



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56. Identify one food chain from your surroundings. Name the producers and different levels of consumers in that food chain.



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57. Identify one food chain from your surroundings. Name the producers and different levels of consumers in that food chain.



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58. Human being is modifying agriculture lands and lakes into residential areas. What is its effect on Bio-diversity?



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59. 

The figure given below represents a food pyramid. Study it and answer the following questions.

(i) Which trophic level has maximum energy?

(ii) Give one example for T_4 trophic level.



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60. "We can't imagine the world without insects and birds. " Suggest two methods to conserve them.



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61. Write any two slogans to promote awareness among the people about Ecofriendly programs.



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62. How do you protect the plants, which were planted in "Haritha Haaram" programme in your school?



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63. What is biosphere?



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64. What determine the terrestrial ecosystems?



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65. What does a food chain how?



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66. What is the source of energy for all ecosystems?



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67. What is food web?



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68. What is food web?





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69. What is 'niche'?



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70. What is 'niche'?



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71. What is an ecological pyramid?





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72. What is a pyramid of numbers? Write a brief note on the pyramid of numbers with the help of a block diagram.



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73. What does the pyramid of number represent?



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74. What does each bar represent in a pyramid of number?



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75. What does the pyramid of number represent?



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76. What is biomass?



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77. What is biofuel?



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78. What does the pyramid of biomass represent?



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79. shravya said to Abhijith - "The pyramid of biomass in an aquatic ecosystem is always inverted". Do you support this statement of Shravya ? Why or Why not ?



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80. How much percentage of the biomass is transferred from one trophic level to the next in a food chain?



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81. When does the species at the top of the pyramid get more energy?



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82. What is ecological efficiency?



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83. What is bioaccumulation?





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84. What is Biomagnification?



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85. What are pesticides?



[Watch Video Solution](#)

86. What is a perfect pesticide?





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87. Who introduced 'Ecological pyramids'?



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88. How can we draw a food chain?



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89. How many types of ecological pyramids are there in practice? Name them.



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90. Which process helps to convert the solar energy into suitable form of energy for animals to consume?



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91. What limits the number of trophic levels in a food chain?



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92. State one reason to justify the position of man at the apex of most food chains.



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93. Which food chains are advantageous in terms of energy?



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94. Construct a food chain composing the following : Snake, Hawk, Rats, Plants.



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95. Which of the following will have the maximum concentration of harmful chemicals in its body?

Peacock, Frog, Grass, Snake, Grasshopper.



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96. Prepare two slogans to conserve water.



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97. Were the sparrows really responsible?

What was the reason for the fall in crop production?



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98. Explain the flow chart given below.



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99. Observe the pyramid of number which is given below and answer the questions.



(i) As per the number of organisms in the trophic level, which group of organisms are more in number and which are less in number?

(ii) What happens if secondary consumers disappear?



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100. Explain in brief about the alternate methods to be followed to prevent the harmful effects of over usage of pesticides.

(OR)

Mention any four effective methods of controlling pests, which are less harmful on environment based on biological principles.



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101. Grass → Grasshopper → From → Snake
→ Hawk.

What will happen if we remove from from the above food chain? Explain.



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102. Observe the diagram and answer the following.

(i) Write any two food chains from the diagram.

(ii) What are the secondary consumers in the food chain that are written by you ?





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103. Write any 4 slogans on the necessity of forests and on their conservation.



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104. How does the given below concepts differs?

(a) Bioaccumulation

(b) Biomagnification.



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105. The biomass of a producers in an ecosystem is calculated as 3500 kgs. Calculate the biomass of primary, secondary, tertiary consumers.



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106. How does the given below concepts differs?

(a) Bioaccumulation

(b) Biomagnification.



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107. List out some human activities which altered the communities of plants and animals in their natural ecosystem.



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108. What kind of changes may come in an ecosystem due to development of a large town?



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109. Write a comparative note on pyramid of number and pyramid of biomass.



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110. Write a comparative note on pyramid of biomass and pyramid of energy.



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111. Write a comparative note on pyramid of number and pyramid of energy.



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112. Geetha said "a given species may occupy more than one trophic level in the same ecosystem at the same time". Do you support her or not? Explain your answer with example.



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113. What happens if decomposers are removed from the foodweb?



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114. What will happen if all the carnivores are removed from the earth?



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115. What will happen to grasslands if all the grazers are removed from there?



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116. The number of malarial patients in a village increases tremendously, when a large number of frogs were exported from the village. What could be the cause for it? Explain with help of a food chain.



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117. If all the waste we generate is biodegradable, what impact may this have on the environment?





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118. What are decomposers and what is the importance of the in the ecosystem?



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119. How sparrows are really helpful to farmers in china?



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120. Why anti sparrow army established in 1958 at china?



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121. Observe the following pyramid of biomass and answer the following questions.

This pyramid shows a decrease in the biomass as we move up, why the biomass is decreasing?



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122. Observe the following diagram and answer the following question.



(i) name the primary producers in the given food web.

(ii) Prepare any one food-chain from the diagram.

(iii) What are the tertiary consumers?



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123. Prepare some slogans about 'vanam-manam' programme to display in your school rally.



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124. Read the information about Kolleru lake in the given table and answer the following questions:



(a) in which year, lake water spread area is

more?

(b) Why do you think weeds are more in the lake?

(c) Guess the reasons for decrease in the lake area.



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125. What does the pyramid of number represent?



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126. Why do the number of organisms get decreased as we move from producer to different level of consumes?



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127. Write a short note on food chain and food web.



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128. What is an ecological pyramid?



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129. Which pyramid is always upright ? Why?



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130. How did antisparrow army eradicated sparrows? Is it right decision?



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131. What is biological magnification? Will the levels of this magnification be different at different levels of the ecosystem?



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132. Will the impact of removing all the organisms in a trophic level be different from different trophic levels? Can the organisms of

any trophic level be removed without causing any damage to the ecosystem?



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133. Draw the diagram of number pyramid keeping foxes as third consumers. What are the consequences if their number increases ?



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134. Show food chain different organisms, number of pyramid of your school.



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135. Draw a flow chart to describe the process of bioaccumulation and bio magnification of toxic pesticides in the body of eagles.



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136. Draw the ecological pyramids for the given food chain.

Banyan → Herbivorous birds → Carnivorous birds.



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137. In a grassland ecosystem, some students are trying to kill the grasshoppers for fun. You didn't like this. How do you convince your friends not to do so?





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138. Write what friendly ecosystem activities you will conduct in you school.



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139. If we introduce a man into a forest ecosystem, at which level of food chain we will place him? Explain your answer.



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140. "All the energy in the ecosystem is ultimately derived from sunlight." Justify.



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