



BIOLOGY

BOOKS - VGS BRILLIANT BIOLOGY (TELUGU ENGLISH)

OUR ENVIRONMENT

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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Experimentation And Field Investigation

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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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 off 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 eiton

- 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. Wher 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 increse 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 → insects → woodpecker

(ii) Grass → rabbit → 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. It Brgt 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. Exapnd D.O.



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7. Expand B.O.D.



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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, Niickel, 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.

Drink plenty of water -
keep your kidneys safe

Eat low salt diet
that saves kidney life

Drink more fruit juices



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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 ecosystem 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 → ggrasshopper → Frog → Snake → Hawk.

(B) Plant → Frog → Grasshopper → Hawk → 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?



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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 "perrfect 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 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 tropic level to tropic 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?



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24. What are the producers in any ecosystem?



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



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26. What does the first tropic 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 does the energy flow 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 weeds in lake kolleru?



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35. What are the water-borne disease common among the inhabitants 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 tropic 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 minamata 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 is 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?



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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 chian? Explain.



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102. Observe the diagram and answeerr the following.

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

(ii) What are the secondary consumes 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 them 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 your 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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Exercise

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. 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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5. 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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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.



[Watch Video Solution](#)

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. 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.



Watch Video Solution

10. 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.



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



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



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16. 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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17. What does the pyramid of biomass represent?



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18. Draw the pyramid of biomass using the terms given below:

predators



Watch Video Solution

19. 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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20. Draw a pyramid of numbers considering yourself as top level

consumer.



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



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22. Suggest any three programmes for prevention off 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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23. What does a food chain always start with?

- A. The herbivore
- B. The carnivore
- C. The producer

D. None of these

Answer:



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

A. Water

B. Food

C. Space

D. All above

Answer:



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25. Ban on pesticides, this means that

- A. Control on usage of pesticides
- B. Prevention of pesticides
- C. Promote ecofriendly agricultural practices
- D. Stop biochemical factories

Answer:



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26. According to charles eiton

- 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:



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



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28. Wher from pollutants enter to the water sources?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

31. How did these disturbances affect the environment?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

35. Are all terrestrial ecosystems similar?



Watch Video Solution

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



Watch Video Solution

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



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38. 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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39. Researchers found that pollution levels increase during monsoon season. Why did they find so?



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



Watch Video Solution

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



Watch Video Solution

42. What do you suggest to stop/avoid disturbing the food chain in the field?



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43. Fill in the blanks.

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



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44. 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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45. Draw the pyramid of number for the following food chains.

(i) Banyan → insects → woodpecker

(ii) Grass → rabbit → 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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46. Draw the pyramid of number for the following food chains.

(i) Banyan → insects → woodpecker

(ii) Grass → rabbit → wolf

If there is a difference, then what is it?



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47. Think why are the pyramids always upright?



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48. Observe the data given in the following table.

In which year lake - water spread area is more ? Why ?

Classes	Area in 1967 (Km ²)	Area in 2004 (Km ²)
Lake – water spread area	70.70	62.65
Lake with sparse weed	0	47.45
Lake with dense weed	0	15.20
Lake-labile to flood in rainy season	100.97	0
Aquaculture ponds	0	99.74
Rice fields	8.40	16.62
Settlements	0.31	1.37
Total	180.38	243.03



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49. Observe the data given in the following table.

How do you think weeds are more in the lake ?

Classes	Area in 1967 (Km ²)	Area in 2004 (Km ²)
Lake – water spread area	70.70	62.65
Lake with sparse weed	0	47.45
Lake with dense weed	0	15.20
Lake-labile to flood in rainy season	100.97	0
Aquaculture ponds	0	99.74
Rice fields	8.40	16.62
Settlements	0.31	1.37
Total	180.38	243.03



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50. Read the table and answer the following questions.

What are the reasons for decrease in lake area?

Causes	Area in 1967	Area in 2004
Lake-water spread area	70.70	62.65
Lake with sparse weed	0	47.45
Lake with dense weed	0	15.20
Lake-liaible to flood in rainy season	100.97	0
Aquaculture ponds	0	99.74
Rice fields	8.40	16.62
Enchroachment	0.31	1.37
Total	180.38	180.38



Watch Video Solution

51. Read the table and answer the following questions.

How do the above reasons lead to pollution?

Causes	Area in 1967	Area in 2004
Lake-water spread area	70.70	62.65
Lake with sparse weed	0	47.45
Lake with dense weed	0	15.20
Lake-liaible to flood in rainy season	100.97	0
Aquaculture ponds	0	99.74
Rice fields	8.40	16.62
Enchroachment	0.31	1.37
Total	180.38	180.38



Watch Video Solution

52. Observe the data given in the following table.

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

Classes	Area in 1967 (Km ²)	Area in 2004 (Km ²)
Lake – water spread area	70.70	62.65
Lake with sparse weed	0	47.45
Lake with dense weed	0	15.20
Lake-labile to flood in rainy season	100.97	0
Aquaculture ponds	0	99.74
Rice fields	8.40	16.62
Settlements	0.31	1.37
Total	180.38	243.03



Watch Video Solution

53. Observe the data given in the following table.

How was the threat to the lake due to pollution discovered ?

Classes	Area in 1967 (Km ²)	Area in 2004 (Km ²)
Lake – water spread area	70.70	62.65
Lake with sparse weed	0	47.45
Lake with dense weed	0	15.20
Lake-labile to flood in rainy season	100.97	0
Aquaculture ponds	0	99.74
Rice fields	8.40	16.62
Settlements	0.31	1.37
Total	180.38	243.03



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54. Read the table and answer the following questions.

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

Problem practices	Agricultural practices	Aquacultural practices	Industrial activities	Humans
Biological				
1. Decreased Migratory birds	-	+	-	-
2. Population loss of flora and fauna	-	+	-	-
3. Pathogens	-	-	-	+
Chemical				
1. Eutrophication	+	+	-	+
2. Toxic contamination	+	+	+	-
Physical				
1. Siltation	+	+	-	-
2. Flooding	+	+	-	+

Legend: (+) means has influence on the mentioned problem



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55. Read the table and answer the following questions.

Do you find any relationship between biological and physical problems ?

Problem practices	Agricultural practices	Aquacultural practices	Industrial activities	Humans
Biological				
1. Decreased Migratory birds	-	+	-	-
2. Population loss of flora and fauna	-	+	-	-
3. Pathogens	-	-	-	+
Chemical				
1. Eutrophication	+	+	-	+
2. Toxic contamination	+	+	+	-
Physical				
1. Siltation	+	+	-	-
2. Flooding	+	+	-	+

Legend: (+) means has influence on the mentioned problem



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56. Read the table and answer the following questions.

What are the reasons for chemical problems ?

Problem practices	Agricultural practices	Aquacultural practices	Industrial activities	Humans
Biological				
1. Decreased Migratory birds	-	+	-	-
2. Population loss of floure and fauna	-	+	-	-
3. Pathogens	-	-	-	+
Chemical				
1. Eutrophication	+	+	-	+
2. Toxic contamination	+	+	+	-
Physical				
1. Siltation	+	+	-	-
2. Flooding	+	+	-	+

Figure 1.6 Human influence on the mentioned problems



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57. Observe the following table showing different activities in the lake and thier influence.

What happens if the dissolved oxygen reduced in lake water?

(4 Marks)

Problem	Agricultural practices	Aquaculture practices	Industrial activities	Human activities
Biological				
1. Decreased Migratory birds	-	+	-	-
2. Population loss of flora and fauna	-	+	-	-
3. Pathogens	-	-	-	+
Chemical				
1. Eutrophication	+	+	-	+
2. Toxic contamination	+	+	+	-
Physical				
1. Siltation	+	+	-	-
2. Flooding	+	+	-	+

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



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

Is BOD of turbid and nutrient rich water high or low ? what are its

consequences ?

(4 Marks)

Problem	Agricultural practices	Aquaculture practices	Industrial activities	Human activities
Biological				
1. Decreased Migratory birds	-	+	-	-
2. Population loss of flora and fauna	-	+	-	-
3. Pathogens	-	-	-	+
Chemical				
1. Eutrophication	+	+	-	+
2. Toxic contamination	+	+	+	-
Physical				
1. Siltation	+	+	-	-
2. Flooding	+	+	-	+

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



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59. Observe the following table showing different activities in the lake and thier influence.

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

(4 Marks)

Problem	Agricultural practices	Aquaculture practices	Industrial activities	Human activities
Biological				
1. Decreased Migratory birds	-	+	-	-
2. Population loss of flora and fauna	-	+	-	-
3. Pathogens	-	-	-	+
Chemical				
1. Eutrophication	+	+	-	+
2. Toxic contamination	+	+	+	-
Physical				
1. Siltation	+	+	-	-
2. Flooding	+	+	-	+

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

 Watch Video Solution

60. Observe the data given in the following table.

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

Classes	Area in 1967 (Km ²)	Area in 2004 (Km ²)
Lake – water spread area	70.70	62.65
Lake with sparse weed	0	47.45
Lake with dense weed	0	15.20
Lake-labile to flood in rainy season	100.97	0
Aquaculture ponds	0	99.74
Rice fields	8.40	16.62
Settlements	0.31	1.37
Total	180.38	243.03

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



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62. Observe the following given below. Draw the pyramid of numbers.



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



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



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



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



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



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69. What is biosphere?



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70. What determines the terrestrial ecosystem ?



Watch Video Solution

71. What does a food chain how?



Watch Video Solution

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



Watch Video Solution

73. What is food web?



Watch Video Solution

74. What is food web?



Watch Video Solution

75. What is 'niche'?



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76. What does the word 'niche' denote ?



[Watch Video Solution](#)

77. What is an ecological pyramid?



[Watch Video Solution](#)

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



[Watch Video Solution](#)

79. What does the pyramid of number represent?



[Watch Video Solution](#)

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



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81. Why does pyramid of numbers sometimes does not look like a pyramid at all ?



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82. What is biomass?



Watch Video Solution

83. What is biofuel?



Watch Video Solution

84. For tree and grassland ecosystems Pyramid of biomass is



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85. An inverted pyramid of biomass can be found in which ecosystem?



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



Watch Video Solution

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



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88. What is ecological efficiency?



Watch Video Solution

89. What is bioaccumulation?



Watch Video Solution

90. What is Biomagnification?



Watch Video Solution

91. What are pesticides?



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92. What is a perfect pesticide?



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93. Who introduced 'Ecological pyramids'?



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94. How can we draw a food chain?



[Watch Video Solution](#)

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



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



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



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



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



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



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

Peacock, Frog, Grass, Snake, Grasshopper.



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102. Prepare two slogans to conserve water.



[Watch Video Solution](#)

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



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



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105. How does the given below concepts differs?

(a) Bioaccumulation

(b) Biomagnification.



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106. How does the given below concepts differs?

(a) Bioaccumulation

(b) Biomagnification.



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107. 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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108. The organisms which are not represented in ecological pyramids are



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



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



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



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



Watch Video Solution

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



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115. 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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116. What happens if decomposers are removed from the foodweb?



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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

123. What is number pyramid ? What does it indicate ?



Watch Video Solution

124. Many pollutantts are released into water from an industrial area. If residue appears in living organisms of a food chain, then it is called.



Watch Video Solution

125. What is an ecological pyramid?



Watch Video Solution

126. What is ecological diversity ? Mention the different types of ecological diversities.



Watch Video Solution

127. What determines the terrestrial ecosystem ?



Watch Video Solution

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



Watch Video Solution

129. Which pyramid is always upright ? Why?



Watch Video Solution

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



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



Watch Video Solution

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



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133. 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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134. Microbes can be used to decrease the use of chemical fertilisers and pesticides. Explain how this can be accomplished.



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135. 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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136. Write what friendly ecosystem activities you will conduct in you school.



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



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



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140. 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).

- A. Bioaccumulation
- B. Biomagnification
- C. Biomass
- D. Biodegradation

Answer:



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141. Among the following pairs, in which one from first species to second species decrease in radius is maximum

A. Plant - Producer.

B. Rabbit - Primary consumer

C. Lion-carnivore

D. Giraffe - Secondary consumer,

Answer:



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142. The continent without forests _____.

A. Arctic

B. Asia

C. Australia

D. Antarctic

Answer:



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143. The correct sequence of a food chain.

(A) Plant → ggrasshopper → Frog → Snake → Hawk.

(B) Plant → Frog → Grasshopper → Hawk → snake.

(C) Plant → Hawk → Snake → Frog → Grasshopper

(D) Plant → Snake → Frog → Hawk → Grasshopper.

A. Plants → Grasshopper → Frog → Snake → Hawk

B. Plant → Frong → Grasshopper → Hawk → Snake

C. Plant → Hawk → Snake → Frog → Grasshopper

D. Plant → Snake → Frog → Hawk → Grasshopper

Answer:



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144. Identify the correct one from the following food chains.

A. Eagle → Rat → Snake → Grains

B. Grains → Rat → Snake → Eagle

C. Grains → Eagle → Rat → Snake

D. Rat → Snake → Grains → Eagle

Answer:



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145. The region of Biosphere reserve which is legally protected and where no human activity is allowed is known as:

A. Biosphere

B. Ecosystem

C. Food chain

D. Food web

Answer:



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146. What are the climatic influences that determine the ecosystem ?

- A. Rainfall
- B. Temperature
- C. Light from sun
- D. All the above

Answer:



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147. The arrows between each item in a food chain always point from

- A. Feeder to food
- B. Food to feeder
- C. Animals to animals

D. Carnivores to herbivores

Answer:



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148. "Niche" denotes

- A. Animal position in food chain
- B. What It eats
- C. Its mode of life
- D. All the above

Answer:



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149. Special position within the food web, in which animals fit in is described as its

- A. Tropic level
- B. Eco level
- C. Niche
- D. None of the above

Answer:



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150. The concept of ecological pyramid was first introduced by

- A. Charles Elton
- B. Slobodkin
- C. Lindeman
- D. Steele

Answer:



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

- A. Producers
- B. Primary consumers
- C. Secondary consumers
- D. Tertiary consumers

Answer:



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

A. Pyramid of biomass

B. Pyramid of number

C. Pyramid of Egypt

D. Pyramid of energy

Answer:



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153. Why does pyramid of numbers sometimes does not look like a pyramid at all ?

A. The producer is a large plant

B. One of the organism at any tropic level is very small

C. In the parasitic food chain

D. All the above

Answer:



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154. Read the following statements and select the correct option:

(a) In an aquatic ecosystem, pyramid of biomass is inverted.

(b) Biomass depends upon reproductive potential and longevity of individuals.

A. Upright

B. Inverted

C. Partly inverted

D. None of the above

Answer:



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

A. 40-50

B. 80-90

C. 44105

D. 30-40

Answer:



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

A. Biomagnification

B. Bioinfection

C. Bioaccumulation

D. Biological control

Answer:



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

- A. Biomagnification
- B. Bioinfection
- C. Bioaccumulation
- D. Biological spread

Answer:



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158. Which of the following is a secondary consumer in a grassland ecosystem ?

- A. Grass
- B. Frog

C. Insect

D. Snake

Answer:



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159. The branch of biology that deals with the study of interactions between organisms and their environment is termed

A. Cycling of materials

B. Mineral circulation

C. Biogeochemical cycles

D. All the above

Answer:



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160. Among the following pesticides which is less dangerous?

- A. DDT
- B. Aldrin
- C. Dieldrin
- D. Heptachlor

Answer:



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

- A. Ban all pesticides
- B. Use pesticides with less chemicals
- C. Sound biological principles
- D. A and C

Answer:



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162. Are all terrestrial ecosystems similar?

- A. Edaphic factors
- B. Climatic factors
- C. Environmental factors
- D. All the above

Answer:



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163. This shows who eats what in a particular habitat

- A. Food web

B. Food pyramid

C. Food chain

D. Ecosystem

Answer:



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164. In a food chain, the number of organisms at third trophic level is

A. Remains constant

B. Decreases

C. Increases

D. First increases later decreases

Answer:



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

- A. Sunlight, Moonlight
- B. Bioluminescence
- C. Moonlight
- D. Sunlight

Answer:



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166. The graphic representation of feeding level structure of an ecosystem taking the shape of a pyramid is called

- A. Ecological pyramid
- B. Environmental pyramid
- C. Biospherical pyramid
- D. Pyramid of Biomass

Answer:



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167. In ecological pyramids, producers are represented here

- A. The base
- B. The tip
- C. The middle
- D. All over the pyramid

Answer:



[Watch Video Solution](#)

168. In ecological pyramids, producers are represented here

- A. The base

B. The tip

C. In the middle

D. All over the pyramid

Answer:



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169. In a food chain the largest population is that of

A. Shape

B. Size

C. Number

D. All the above

Answer:



Watch Video Solution

170. Identification of a pollutant as organic, inorganic (or) organometallic origin is called

- A. Biomass
- B. Bioenergy
- C. Biofuel
- D. Bio geochemical cycle

Answer:



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171. Biomass can also be used as a

- A. Food
- B. Biofuel
- C. Biodiesel
- D. None of the above

Answer:



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172. This pyramid represents the available food as a source of energy at each trophic level in the food chain

- A. Pyramid of numbers
- B. Pyramid of biomass
- C. Pyramid of energy
- D. Pyramid of drymass!

Answer:



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173. Read the following statements and select the correct option:

- (a) In an aquatic ecosystem, pyramid of biomass is inverted.

(b)Biomass depends upon reproductive potential and longevity of individuals.

- A. Terrestrial ecosystem
- B. Aquatic ecosystem
- C. Forest ecosystem
- D. Desert ecosystem

Answer:



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174. "The ratio between energy flows at different trophic levels among the food chains expressed as percentage" what is this known as?

- A. Ecological deficiency
- B. Ecological efficiency
- C. Biological deficiency

D. Biological efficiency

Answer:



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

A. Unidirectional

B. Bidirectional

C. Tridirectional

D. Multidirectional

Answer:



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176. How does the given below concepts differs?

(a) Bioaccumulation

(b) Biomagnification.

A. Entering of pollutants in a food chain

B. Entering of pollutants in a food web

C. Entering of pollutants into an ecosystem

D. Entering of pollutants into bio- sphere

Answer:



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177. The plant substances which are not digested by most animals are

A. Cellulose

B. Lignin

C. Carbohydrates

D. Cellulose, lignin

Answer:



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

A. Hair, feathere

B. Insect exoskeletons

C. Cartilage, bone

D. All the above

Answer:



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179. Space travellers use the following alga to fulfill their food requirements

- A. Performance of work
- B. Growth
- C. Reproduction
- D. All the above

Answer:



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180. Most of the energy in gasoline is lost as in a cars engine rather than being transformed into the energy of motion

- A. Pressure
- B. Heat
- C. Water vapour

D. Temperature

Answer:



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181. The catchment area of the kolleru lake extend up to

A. 6121 km^2

B. 6211 km^2

C. 6237 km^2

D. 6312 km^2

Answer:



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

- A. In October, 1999
- B. In November, 1999
- C. In December, 1999
- D. In September, 1999

Answer:



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

- A. 15,00,000 birds
- B. 35,00,000 birds
- C. 20,00,000 birds
- D. 25,00,000 birds

Answer:



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184. The length of twisty channel upputeru which connects Kolleru lake with bay of Bengal

A. 75 km

B. 65 km

C. 55 km

D. 80 km

Answer:



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185. Excessive nutrient addition, especially from anthropogenic sources, led to extensive growth of the following need in Kolleru lake

- A. Ipomea
- B. Eichornia
- C. Cyperus
- D. Cynodactylon

Answer:



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186. What are the water-borne disease common among the inhabitants of lake Kolleru?

- A. Diarrhoea
- B. Typhoid
- C. Amoebiasis
- D. All the above

Answer:



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187. Draw a flow chart to describe the process of bioaccumulation and biomagnification of toxic pesticides in the body of eagles.

- A. Mercury
- B. Arsenic
- C. Lead
- D. All the above

Answer:



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188. Which one of the following diseases is not due to contamination of water ?

- A. They are strongly respond to stress conditions

- B. They do not strongly respond to stress conditions
- C. They are weak in respond to stress conditions
- D. They easily adjust to stress conditions

Answer:



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

- A. Cadmium
- B. Nickel
- C. Chromium
- D. Iron

Answer:



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190. The bio accumulation of heavy metals into human being through food causes diseases like

- A. Hypertension
- B. Sporadic fever
- C. Renal damage, Nausea
- D. All the above

Answer:



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191. Minamata diseases was caused by release of in industrial waste water In japan

- A. Methyl mercury
- B. Ethyl mercury

C. Acetic acid

D. All the above

Answer:



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192. Read the passage

People started trapping, poisoning and killing sparrows in large numbers. Several free fire zones were set up for shooting the sparrows. People would beat drums to scare the birds from landing, so the sparrows were forced to keep flying until they dropped dead from fatigue. Sparrow nests were torn down, eggs were broken and nestlings were killed. Non-material rewards and recognition were offered to school, work units and government agencies in accordance with the number of sparrows killed. Later some scientists who cut open the digestive system of dead sparrows found that three-fourth of the contents were of insects harmful for crops and only one-fourth contained grains. The scientific findings showed that sparrows were basically beneficial birds for humans. Rather than being

increased, crop yields after the campaign were substantially decreased.

Why the government of China mobilized o hunt down the sparrows ?

- A. Japan
- B. China
- C. Indonesia
- D. Thailand

Answer:



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193. Fossil fuels are formed by Anaerobic decomposition of buried

- A. Dead organisms
- B. Coal
- C. Petrol
- D. All of the above

Answer:



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194. In a school, students thought of planting trees in an around the school to reduce air pollution. It was decided that the number of trees, that each section of each class will plant, will be the same as the class. In which they are studying e.g., a section of Class I will plant 1 tree, a section of Class II will plant 2 trees and so on till Class XII. There are three sections of each class. How many trees will be planted by the students?

- A. It is highly expensive
- B. It is time consuming
- C. It hampers sustainability
- D. It becomes an artificial set up

Answer:



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195. The primary consumer is....

- A. Grass
- B. Frog
- C. Insect
- D. Snake

Answer:



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196. Consumers are divided based on the factors given below in an ecosystem.

- A. Energy
- B. Trophic level
- C. Consumed food, trophic level

D. Consumed food

Answer:



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197. Kolleru lake discharges its water into the Bay of Bengal through thechannel.

A. 1999

B. 1989

C. 2009

D. 1998

Answer:



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

- A. Eagles
- B. Sparrows
- C. Crows
- D. Hawks

Answer:



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199. What are the abiotic factors of ecosystem?

- A. land and water
- B. air
- C. sunlight
- D. all the above

Answer:



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200. Observe the following a and b statements :

The number of organisms decrease as e move from producers to consumers.

The consumers are placed in the front position in a food chain.

A. increase

B. decrease

C. same

D. none of the above

Answer:



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201. The bio accumulation of heavy metals into human being through food causes diseases like

- A. Hypertension
- B. Sporadic fever
- C. Renal damage, Nausea
- D. All the above

Answer:



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202. Match the following

List-I

- (A) NO_3^- ion in drinking water 50 ppm causes disease
- (B) SO_4^{2-} ion is greater than 550 ppm causes
- (C) Mercury poison causing
- (D) Domestic sewage

List-II

- (1) Dissolved oxygen
- (2) Minamata disease
- (3) Laxative effect
- (4) Blue baby syndrome

The correct match is

- A. Jaundice
- B. Typhoid
- C. Minamata
- D. None

Answer:



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

- A. Cyperus
- B. Eichornia
- C. Ipomea
- D. Cynodactylon

Answer:

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

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

(4 Marks)

Problem	Agricultural practices	Aquaculture practices	Industrial activities	Human activities
Biological				
1. Decreased Migratory birds	-	+	-	-
2. Population loss of flora and fauna	-	+	-	-
3. Pathogens	-	-	-	+
Chemical				
1. Eutrophication	+	+	-	+
2. Toxic contamination	+	+	+	-
Physical				
1. Siltation	+	+	-	-
2. Flooding	+	+	-	+

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

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

A. Agricultural runoff of agrochemicals, fertilizers

B. Fish tank discharges

C. Municipal and domestic sewage

D. All the above

Answer:



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205. What measure would you take to prevent water-borne diseases?

- A. Diarrhoea
- B. Typhoid
- C. Amoebiasis
- D. All the above

Answer:



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206. Coniferous forest belongs to

- A. Terrestrial ecosystem

B. Aquatic ecosystem

C. Both A and B

D. Mountains

Answer:



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207. How does the flow of acid rain into a river make the survival of aquatic life in a river difficult ?

A. Excessive nutrient input

B. Acidification, organic pollutants

C. Heavy metal contamination

D. All the above

Answer:



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208. Man : Lungs , Frog : _____

- A. Primary. Consumer
- B. Secondary Consumer
- C. Tertiary Consumer.
- D. Top Carnivore

Answer:



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209. Which of the following acts as a primary as well a secondary consumer in the forest eco-system?

- A. Rabbit
- B. Deer
- C. Tiger

D. 2, 4, 5, 1, 3

Answer:



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210. Example for non-biodegradable pesticide

A. B.H.C

B. D.D.T,

C. Aldrin

D. All the above

Answer:



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211. Which of the followin is a secondary consumer in a grassland ecosystem ?

- A. Deer
- B. Kangaroo
- C. Dolphin
- D. Diatoms

Answer:



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212. Grass → Deer → Tiger → The → mark in the above food chain always points from

- A. Feeder to food
- B. Food to feeder
- C. Carnivores to herbivores

D. None of the above

Answer:



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213. Ecosystem: Tansley:: Ecological Pyramid ____? ____

A. Lindeman

B. Elton

C. Slobodkin

D. None

Answer:



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

- A. Both a, b false
- B. Both a, b correct
- C. A false, b correct
- D. a correct, b false

Answer:



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215. Ask your teacher about nuclear energy and its impacts on ecosystem.

- A. Sunlight
- B. Temperature
- C. Rainfall
- D. All the above

Answer:



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216. What percent of energy loss can be observed at each tropic level?

A. 0.9

B. 0.7

C. 0.6

D. 0.1

Answer:



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217. How do you say that the flow of energy in the ecosystem is unidirectional ?

A. Herbivores

B. Primary consumers

C. Producers

D. Top carnivores

Answer:



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218. 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)

A. 20 J

B. 2J

C. 0.2 J.

D. 200 J

Answer:



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219. 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)

A. 2000 J

B. 1000 J

C. 200 J

D. 20J

Answer:



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