



BIOLOGY

BOOKS - BEYOND PUBLICATION

OUR ENVIRONMENT

Example

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



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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.



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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.



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



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



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



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



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



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



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



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18. 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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19. Are all terrestrial ecosystems similar?



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20. 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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21. 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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22. 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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23. Why most of the food chains consist of four steps?



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



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25. 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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26. 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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27. Think why are the pyramids always upright?



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28. 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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29. 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-liable 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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30. Observe the data given in the following table.

What are the reasons for decrease in lake area?

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-liable 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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31. Observe the data given in the following table.

How do the above reasons lead pollution ?

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-liable 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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32. 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-liable 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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33. 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-liable 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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34. Observe the following table showing different activities in the lake and their influence.

What are the factors that affected the number

of migratory birds to decrease ?

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

Do you find any relationship between bio-

logical and physical problems ?

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

What are the reasons for chemical problems ?

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

What happens if the dissolved oxygen is 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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38. 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 it's 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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39. 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.



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



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41. 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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42. Wher from pollutants enter to the water sources?



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



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



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



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



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



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48. How did these disturbances affect the environment?



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



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



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



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52. What is biofuel?



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53. What is biosphere?



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54. What does a food chain how?



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55. What is called environment ?



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



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57. What determines the terrestrial ecosystem ?



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58. What is 'niche'?



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59. A food chain represents a unidirectional flow of 'X'. Then what is 'X'?



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60. What are pesticides?



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



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62. Expand D.D.T.



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63. Write the names of any pesticides.



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64. Arrange the following in a food chain.

Big fish, Diatoms, Larvae, Small fish.



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65. What are the producers in any ecosystem?



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66. What is ecological efficiency?



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67. Which organisms belong to the second and fourth trophic level ?

Rats, Grass , Snake, Eagle.



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68. How do pesticides show ill - effects in the birds?



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69. Give one example for "perrfect pesticide".



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



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71. What is 10% law ?





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72. What is called Bio-geochemical cycles ?



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73. What is bio-magnification ?



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74. What is bio accumulation ?





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



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76. What is BOD ?



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77. Who started "Operation Kolleru"?



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78. Expand EBWR.



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79. Which is the largest fresh water lake in India ? Where did it exist ?



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80. Who introduced 'Ecological pyramids'?



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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 food web?



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83. What is food web?



[Watch Video Solution](#)

84. What is 'niche'?



[Watch Video Solution](#)

85. What is an ecological pyramid?



[Watch Video Solution](#)

86. 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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87. What does the pyramid of number represent?



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



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89. For tree and grassland ecosystems Pyramid of biomass is



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



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



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92. What is ecological efficiency?



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



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94. Why are the temperatures very high during the day and cold during the nights in deserts ?



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95. How can we draw a food chain?



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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. "Man is at the apex of most food chains ", how could you justify the statement ?



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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. To create awareness on "Water conservation" in your locality, what slogan you will suggest ?



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



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



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



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106. Write some slogans for protection of Environment .



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

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



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109. What are the abiotic factors of ecosystem?



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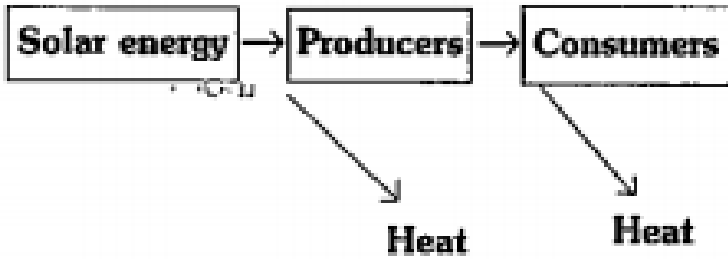
110. Read the following passage. Answer the questions

What abiotic factor is more useful for plants ?



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111. How does the energy flow here ?



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112. Draw the pyramid diagrams of the consumers of the empty boxes.



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113. How much of weight is entered into the body of fish as per the given flow chart ?



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114. 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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115. Mention the major ecosystem of the earth.



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



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117. "The pyramids of biomass of terrestrial ecosystem are always upright" said Jyothsna. Do you agree with this statement or not? Give reasons.



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118. A forest ecosystem , having a lot of green plants has some rabbits, wolves and leopards in it.

Write the possible food chain comprising all the four animals.



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119. A forest ecosystem , having a lot of green plants has some rabbits, wolves and leopards in it.

Write the possible food chain comprising all the four animals.



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120. Collect the data about the bio-fertilizers which are considered as the best alternatives to chemical fertilizers.



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



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



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123. Are all terrestrial ecosystems similar?



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



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





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126. 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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127. If all the waste we generate is biodegradable, what impact may this have on

the environment?



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128. What is the role of decomposers in the ecosystem ?



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129. Can you agree that all plants are actually producers of energy ?



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



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131. How does the given below concepts differs?

(a) Bioaccumulation

(b) Biomagnification.



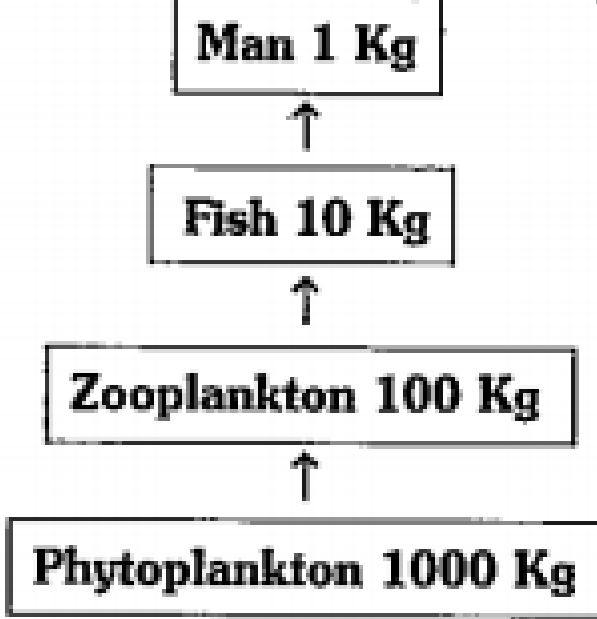
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132. The biomass of a producers in an ecosystem is calculated as 3500 kgs. Calculate the biomass of primary, secondary, tertiary consumers.



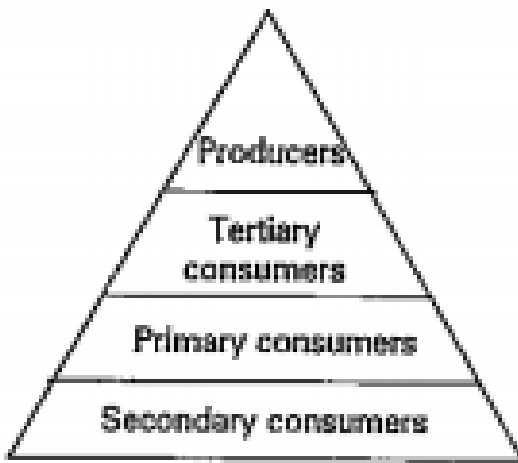
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133. Observe the given figure and add a note on it.



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134. Correct the food pyramid and draw it in correct manner.



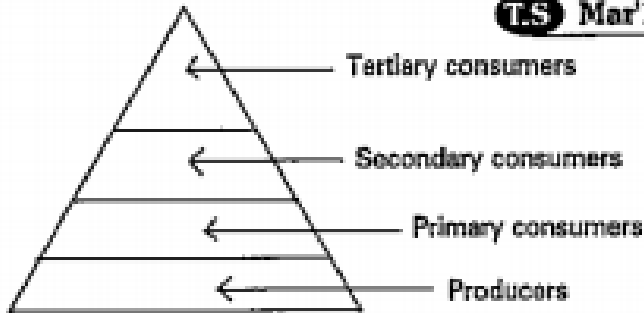
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135. Observe the pyramid of number which is given below and answer the questions.

As per the number of organisms in the trophic level, which group of organisms are more in

number and which are less in number ?

T.S Mar'16



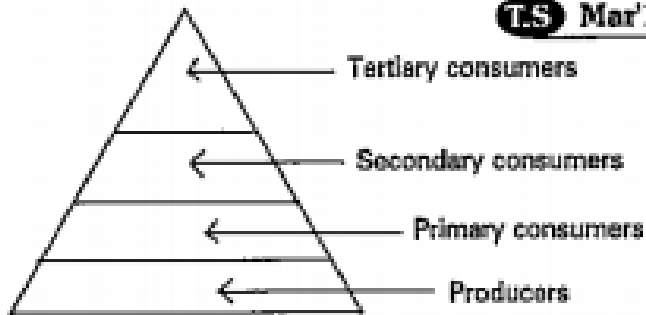
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136. Observe the pyramid of number which is given below and answer the questions.

What happens if Secondary consumers

disappear ?

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137. Draw the diagram of Pyramid of Number



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138. Observe the pictures given below. Fig A indicates pyramid of Egypt and Fig B indicates Ecological pyramid. Explain which type of ecological pyramid is this . Name some kinds of ecological pyramids..

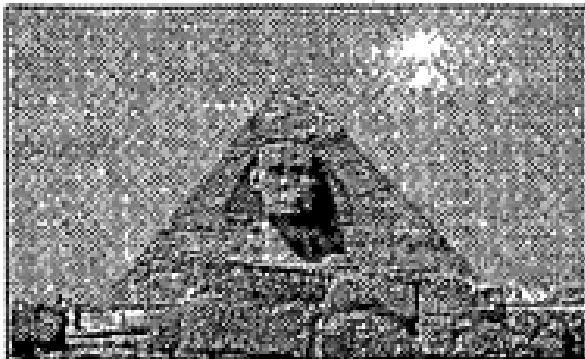


Fig. A : Pyramid of Egypt



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139. Taking the following food chain as example draw pyramid of biomass. E.g: Grass- Eagle - Herbivores- Carnivores.



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140. Every organism has a position in a food web. Write a poem appreciating this.



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141. Minamata disease is due to the pollutant



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



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143. What will happen if all the herbivores are removed from a food web ?



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144. 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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145. Calculate the amount of energy available to lion in the following food chain, if plants have 20,000j of energy available from the sun

Plants ↔ Deer ↔ Lion



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146. Collect the information about natural pest controlling methods and pictures.



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147. How do you understand the interdependency of animals and plants ? How do you appreciate that ?



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148. Observe this flow chart and write about it.

Phytoplankton → Zoo plankton → Fish → Man

1000 kg

100 kg

10 kg

1 kg



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149. What determines the terrestrial ecosystem ?



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



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151. The organisms which are not represented in ecological pyramids are



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152. Which pyramid is always upright ? Why?



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153. What is ecological efficiency?



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



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155. 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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156. Write a short note on pyramid of biomass.



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157. What is bio-magnification ?



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



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



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



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161. 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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162. 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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163. 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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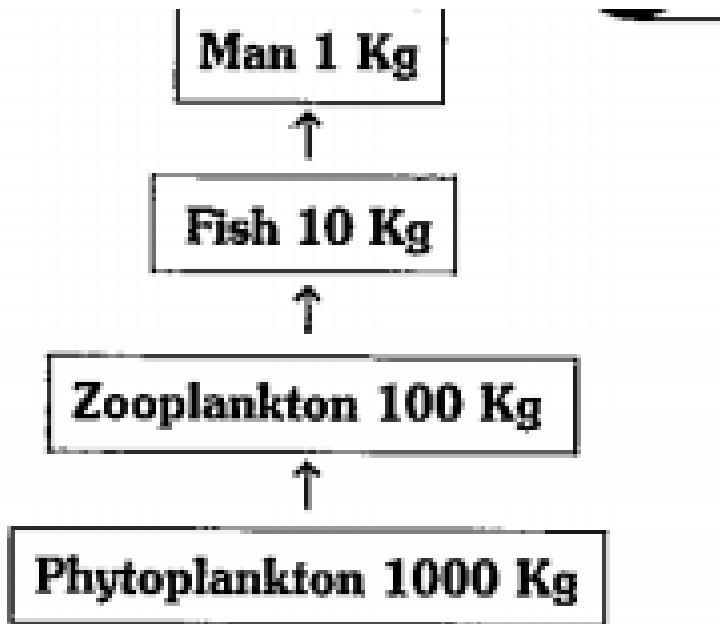
164. Draw the ecological pyramids for the given food chain.

Banyan → Herbivorous birds → Carnivorous birds.



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165. Observe the given figure and add a note on it.



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



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167. 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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168. What is number pyramid ? What does it indicate ?



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



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170. Draw the diagram of Pyramid of Number



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



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



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



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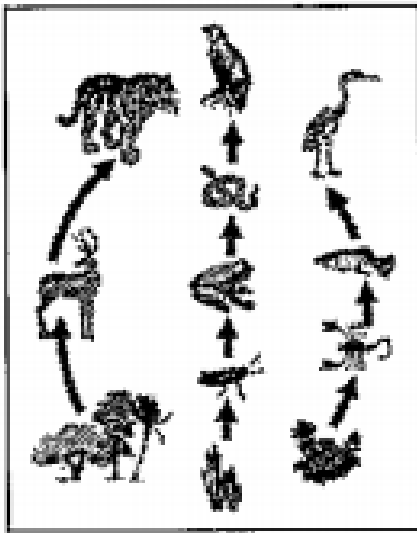
174. What is an ecological pyramid?



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175. With the help of this diagram , answer the questions.

What is the relation you observe in the pictures. What does it denote ?



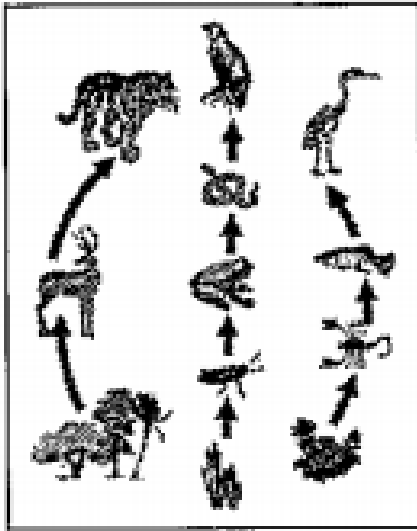
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176. With the help of this diagram , answer the

questions. Grass ↔ Eagle ↔ Snake ↔

Frog ↔ Grasshopper.

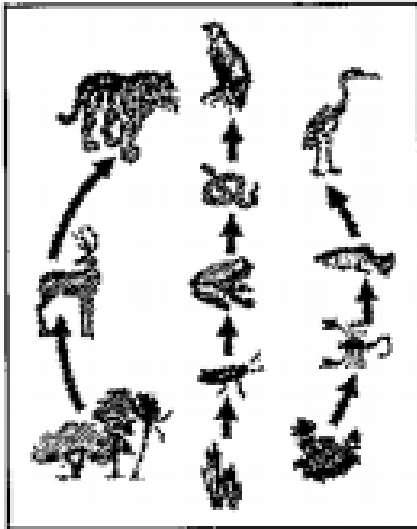
Is it a correct order ? If not rearrange and
swrite.



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177. With the help of this diagram , answer the questions.

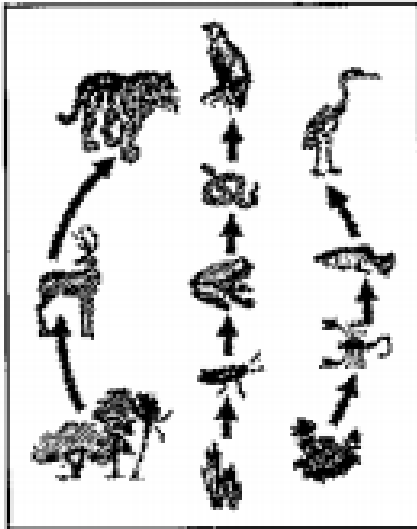
Name the autotroph in the diagram.



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178. With the help of this diagram , answer the questions.

What will you place in the apex ?



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179. What steps you would like to follow on your part to conserve bio-diversity ?



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180. 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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181. Nature is the sum of all types of ecosystem. In this every factor works with co-ordination. How can you appreciate this ?



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182. The farmers of your locality are using chemical fertilizers. You suggested them to use natural fertilizers. Prepare a pamphlet to explain the need of Bio-fertilisers.



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



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184. Did you read the story of Kolleru Lake ?
Arrange its saddest story in the order and write it in a report form.



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185. 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 to hunt down the sparrows ?



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186. 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 deal sparrows found that three- fourth of the contents were of insects harmful for crops adn ony one fourth contained grains. The scientiffic findings showed that sparrow were basically beneficial birds for humans. Rather than being increased, crop yields after the campaign were substantially decreased.

What is the loss caused due to the killing of sparrows ?



Watch Video Solution

187. 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 deal sparrows found that three- fourth of the contents were of insects harmful for crops adn ony one fourth contained grains. The scientiffic findings showed that sparrow were basically beneficial birds for humans. Rather than being increased, crop yields after the campaign were substantially decreased.

What is the reason for less yield in the fields ?



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188. Observe the table. Answer the following questions basing on the information.

Why the Kolleru Lake filled up with weeds ?

Classes	Area in 1967	Area in 2004
	(Sq.Km)	(Sq.Km)
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	180.38



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189. Observe the table. Answer the following questions basing on the information.

When was the aquaculture increased in Kolleru ?

Classes	Area in 1967 (Sq.Km)	Area in 2004 (Sq.Km)
Lake-water spread area	70.70	62.65
Lake with sparse weed	0	47.45
Lake with dense weed	0	15.20
Lake-liable 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	180.38



Watch Video Solution

190. Observe the table. Answer the following questions basing on the information.

Which type of suggestion will you give for protection of Kolleru Lake ?

Classes	Area in 1967 (Sq.Km)	Area in 2004 (Sq.Km)
Lake-water spread area	70.70	62.65
Lake with sparse weed	0	47.45
Lake with dense weed	0	15.20
Lake-liable 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	180.38



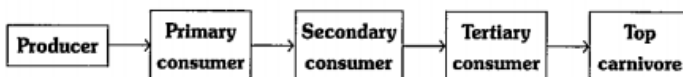
Watch Video Solution

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

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192. Read the flow chart and answer the following.

Name the producer and consumer in the above food chain ?

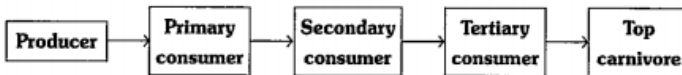




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193. Read the flow chart and answer the following.

Guess what does the arrows marked by you indicate ?



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



Watch Video Solution

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



Watch Video Solution

196. Read the table and answer the following questions.

How do you think weeds are more in the lake ?

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-liable 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

197. 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-liable 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



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198. 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-liable 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



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199. Read the table and answer the following questions.

How was threat to the lake due to pollution of

the lake discovered ?

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-liable 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



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200. 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	+	+	-	+



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201. 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	+	+	-	+



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202. 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 flora and fauna	-	+	-	-
3. Pathogens	-	-	-	+
Chemical				
1. Eutrophication	+	+	-	+
2. Toxic contamination	+	+	+	-
Physical				
1. Siltation	+	+	-	-
2. Flooding	+	+	-	+



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203. Read the table and answer the following questions.

People living in catchment area of Kolleru face

many problems. Why ?

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	+	+	-	+



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Exercise

1. What does a food chain always start with?

A. The herbivore

B. The carnivore

C. The producer

D. None of them

Answer:



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

A. Water

B. food

C. Space

D. All above

Answer:



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3. Ban al 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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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:



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5. The ground flora of Tundra constitute

A. Mosses

B. Herbs

C. Shrubs

D. Tall trees

Answer:



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6. Reindeer can be seen in

A. Rain forest

B. Tundra

C. Desert

D. Valleys

Answer:



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7. Sporadic rainfall is present in

A. Tundra

B. Desert

C. Hills

D. Grassland

Answer:



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8. Domination of grass species can be seen in

A. Tropic forest

B. Savannah

C. Hills

D. Desert

Answer:



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9. Rich flora and fauna can be seen here

A. Tundra

B. Desert

C. Mountain

D. Tropical forest

Answer:



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10. Desert Ship?

A. Elephant

B. Lion

C. Desert fox

D. Camel

Answer:



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11. What is correct for the artificial ecosystem ?

A. Space ship

B. Aquarium

C. Terrarium

D. All the above

Answer:



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12. Which of the following acts as a primary as well a secondary consumer in the forest ecosystem?



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13. Example for non-biodegradable pesticide

A. D.D.T

B. Malathian

C. B.H.c

D. All the above

Answer:



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14. The food by its nature is

A. Physical energy

B. Chemical energy

C. Kinetic energy

D. Potential energy

Answer:



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15. The amount of energy available at successive trophic levels

A. Biomass

B. Gobargas

C. Biogas

D. Biofuel

Answer:



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16. 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. vertical

C. inverted

D. cyclic

Answer:



Watch Video Solution

17. The following per cent of energy dissipated at each energy transfer

A. 60-40%

B. 60-65%

C. 80-90%

D. 1

Answer:



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18. The correct path of energy flow in an ecosystem is

A. Food web

B. Ecographs

C. Ecobirds

D. Ecotones

Answer:



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19. In ecological pyramids, producers are represented here

A. I trophic level

B. II Trophic level

C. III Trophic level

D. IV Trophic level

Answer:



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20. Which of the following is an autotroph ?

A. Man

B. Elephant

C. Green plants

D. Bacteria

Answer:



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21. The maximum energy is stored at following tropical level in any ecosystem

A. Energy level

B. Population

C. Niche

D. Habitat

Answer:



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22. The energy provider in an ecosystem is

A. The sun

B. Water

C.

D. Soil

Answer: Plants



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23. Pyramid of numbers is

A. The number of producers

B. The number of carnivores

C. The number of decomposers

D. The number of organisms in a food chain

Answer:



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24. Ecological niche is

A. What it eats

B. Animal position in food chain

C. Its mode of life

D. All the above

Answer:



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25. 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 ?

A. Upright

B. Inverted

C. Partly inverted

D. None of the above

Answer:



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26. Scientist who defined ecology as the study of interrelationships between organisms and their environment is

- A. Mineral circulation
- B. Cycling of materials
- C. Biogeochemical cycles
- D. All the above

Answer:



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27. The concept of ecological pyramid was first introduced by

A. Lindman

B. Slobokdin

C. Charles Elton

D. Edward Jenner

Answer:



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

A. Grass

B. Frog

C. Insect

D. Snake

Answer:



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29. 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).

- A. Food chain
- B. Food web
- C. Biomass
- D. Trophic level

Answer:



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

A. 12+-10%

B. 10-20%

C. 15-18 %

D. 20-25 %

Answer:



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31. Biomass can also be used as a

A. Diesel

B. Biofuel

C. Biogas

D. None

Answer:



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

A. Secondary consumers

B. Primary consumers

C. Producers

D. Tertiary consumers

Answer:



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33. In November 1999 , The Government of Andhra Pradesh had declared Kolleru lake as -

- A. Plant Sanctuary
- B. Animal sanctuary
- C. Bird sanctuary
- D. Floral sanctuary

Answer: None



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34. The second trophic level in a lake is-

A. More

B. Less

C. Between

D. Above

Answer:



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35. Write the proper of food chain

Eagle → rat → snake → grain

grain → rat → snake → eagle

snake → eagle → rat → grain

rat → snake → grain → eagle

A. Eagle ↔ rat ↔ snake ↔ grain

B. Grain ↔ rat ↔ snake ↔ eagle

C. Snake ↔ eagle ↔ rat ↔ grain

D. Rat ↔ snake ↔ grain *har* eagle

Answer:



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36. In this food chain, the organism which belongs to the second trophic level is....

A. Snake

B. Plant

C. Grasshopper

D. Frog

Answer:



37. A farmer introduced garden lizards into his agricultural fields to eradicate insects. What do you name this method ?

- A. Environmental ethic method
- B. biological control method
- C. Bioaccumulation method
- D. Biomagnification method

Answer:



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

- A. Bio -Remediation
- B. Bio- Mimicary
- C. Bio- Pollution
- D. Bio- Magnification

Answer:



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39. Between grass and grasshopper food chain ends with

- A. Producer
- B. Saprophyte
- C. Decomposers
- D. Consumers

Answer:



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40. Match the items of first line with second line.

1. Charles Elton

2. Charles Darwin

3. Lavoisier

a) Respiration is a
combustion process

b) Ecosystem

c) Evolution

A. 1-b,2 -c ,3-a

B. 1- b, 2-a, 3-c

C. 1-c 2 - a -3 - b

D. 1 - c 2 - b - 3 - a

Answer:



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

A. Consumed food

B. Trophic level

C. Consumed food, trophic level

D. Energy

Answer:



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42. You have prepared a work what for collecting information on observing different food chains. One of the following important component in the work sheet.

A. Details of group members

B. Food relationship

C. Names of animal

D. Number of carnivores

Answer:



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43. The primary consumer is....

A. Rabbit

B. Tiger

C. Frog

D. Snake

Answer:



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44. Find out the missing thing from the table.

Type of pyramid	Base
Pyramid of number	Number of organism
?	Flow of energy

- A. Ecological Pramid
- B. Pyramid of energy
- C. Pyramid of bio-mass
- D. Giza Pyramid

Answer:



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45. 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. both a and b are true

B. a is true, b is false

C. a is false, b is true

D. both a and b are false

Answer:



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46. Consider the following .

The place of organism in a food web is called "Niche".

Niche explains the living habits and food habits of organism.

A. both a and b are true

B. a is false, b is true

C. both a and b are false

D. a is true , b is false

Answer:



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47. Consider the following.

The amount of bio-mass decreases from producers to carnivores in terrestrial ecosystem.

The amount of bio-mass decreases from producers to carnivores in aquatic ecosystem.

A. both a and b are true

B. a is true, b is false

C. both a and b are false

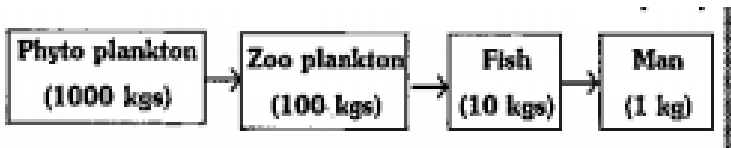
D. a is false, b is true

Answer:



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48. observe the energy flow in the flow chart



A. 1,2 correct

B. 2,3,4 correct

C. 2,4 correct

D. All are correct

Answer:



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49. Insectivores feed on aphids, grasshopper. We can represent the statement through one of the following.

A. Food level

B. Food chain

C. Trophic level

D. Food web

Answer:



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50. The country which killed the sparrows by thinking they are the cause for decrease in crop harvest.

A. India

B. Pakistan

C. China

D. Japan

Answer:



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51. Rotation of crops, Genetic strains, Sterility
are the....methods to prevent the pests.

A. Bio - accumulation

B. Bio- magnification

C. Biological control

D. Environmental ethics

Answer:



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52. The sum of physical and biological factors along with their chemical interaction that effect on organism is called.....

A. Ecosystem

B. Atmosphere

C. Environment

D. Food chain

Answer:



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53. Air, water, soil, sunlight are called...factors.

A. Biotic

B. Abiotic

C. Chemical

D. Physical

Answer:



Watch Video Solution

54. According to Charles Eton

A. Food chain

B. Food web

C. Ecological pyramid

D. Trophic level

Answer:



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55. Pyramid : Egypt: Ecological pyramids:

A. Odum

B. Francis Bacon

C. Charles Darwin

D. Charles Elton

Answer:



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

- A. River Narmad
- B. River Godvari
- C. Maddileru channel

D. Upputeru channel

Answer:



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57. In the year ___(1), the government of andhra pradesh, declared kolleru lake as ___(2).

A. Bird sanctuary

B. Wild life sanctuary

C. National park

D. Pisciculture centre

Answer:



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58. The Mercury, Arsenic and Lead in pesticides.....

A. do not breakdown

B. breakdown

C. increases purity

D. can't accumulate

Answer:



Watch Video Solution

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

A. Both A and b are correct. B is giving correct explanation to A

B. A is correct B is not correct

C. A is wrong B is correct

D. Both A and B are wrong

Answer:



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60. Observe the a and b statements.

Producers are represented at the base of 'the pyramid'.

The top of the pyramid is represented a
empty.

A. Both a and b are true

B. a is true, b is false

C. a is false, b is true

D. both a and b are false

Answer:



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61. Observe the a and b statements.

In the pyramid of numbers, as we move to top position the number of organisms decreases.

as the number of organisms decreases , the quantity of organisms also decrease.

A. both a and b are true

B. a is true, b is false

C. a is false, b is true

D. both a and b are false

Answer:



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62. In pyramid of numbers, from the lower trophic level to higher trophic level there is progressive

A. i only

B. i,ii,iii

C. i,ii,iv

D. all are correct

Answer:



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63. Observe the a and b statements.

Photosynthesis is an essential process for the life of organisms.

The abiotic factors like sunlight, CO_2 and water are not needed for organisms.

A. a, b both are true

B. a is true, b is false

C. a is false, b is true

D. a and b both are false

Answer:



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64. Consider the followin.

It would be better to reduce the reproductive capacity of male insect organisms.

crop rotation method is the best practice.

A. a, b both are true

B. a is true, b is false

C. a is false, b is true

D. both a and b are false

Answer:



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65. Find out the consequence that occur due to destruction of grassoppers in the ecosystem.

A. Producers will disappear

B. Frog population rise

C. secondary producers die due to lack of
food

D. Number of consumers rise in the
ecosystem

Answer:



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66. Indiscriminate use of pesticides is a cause for

- 1) Killing of harmful insects
- 2) Killing of useful insects
- 3) Increase of crop yield
- 4) Reduce of crop yield

A. i and ii are correct

B. ii and iii are correct

C. i and iv are correct

D. All are correct

Answer:



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67. You observed fish in the industrial areas .Some of the followig heavy metals are found in them.

lead

cadmium

nickel

A. i only

B. i,ii only

C. i,iii only

D. All are correct

Answer:



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68. Who is correct?

Srinu: Elements are made up of atoms.

Mohan: Atoms are made of elements.

A. bio-control

B. bio-accumulation

C. bio-remediation

D. bio-magnification

Answer:



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69. The correct way for facilitating shelter for growing population.

- A. Destruction of forests and making shelter
- B. Building shelters at sea shore area
- C. Making habitat without destructing ecosystem
- D. Converting marshy land into habitat

Answer:



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70. Three of the following is not a reason for imbalance in an ecosystem.

- A. Deforestation
- B. Same crop harvest
- C. Crop rotation
- D. Constructing dams

Answer:



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71. The correct statement for insecticide

A. Insects die immediately after spraying

B. Available in low price and works
efficiently

C. Targetted insects are destroyed

D. Harmless to environment

Answer:



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72. Sujatha asked to cut grass and green plants to keep the surroundings clean . This is opposed by Raffee. Why ?

- A. Need more labour
- B. Takes more time
- C. Disturbs equilibrium
- D. Artificial environment

Answer:



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73. Consider the following

Aphids are small in size but their number is more
Wood peckers eat aphids. Their number is less, but size is large.

A. both a and b are true

B. a is true, b is false

C. a is false, b is true

D. a and b are false

Answer:



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74. Jahnvi's opinion is "Environmental movement needs mob of people and elaborate machinery". Justify the statement.



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75. Write about the four 'R's that can save environment.



Watch Video Solution

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



Watch Video Solution

77. Consider the following

Carnivores are on the top of pyramid of number.

These are large in number of size.

A. both a and b are true

B. a is true, b is false

C. both a and b are false

D. a is false, b is true

Answer:



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78. For tree and grassland ecosystems Pyramid of biomass is

A. both a and b are true

B. a is true, b is false

C. b is true, a is false

D. both a and b are false

Answer:



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79. What happened in Kolleru lake due to over alkalinity and mud formation?

a.) The Percentage OF O_2 decreased

b.) More increase in Biological Oxygen demand and impact on aquatic organisms.

A. a is true

B. b is true

C. both a and b are true

D. both a and b are false

Answer:



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80. Observe the following a and b statements :

The less energy will be available for the higher

consumers.

Producers will get more energy.

A. both a and b are true

B. a is true, b is false

C. a is false, b is true

D. both a and b are false

Answer:



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81. Observe the a and b statements.

Photosynthesis is an essential process for the life of organisms.

The abiotic factors like sunlight, CO_2 and water are not needed for organisms.

A. both a and b are true

B. a is true, b is false

C. a is false, b is true

D. both a and b are false

Answer:



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82. Grass, grasshopper, frog, snake, eagle- find out the correct flow chart.

A. grass \leftrightarrow grasshopper \leftrightarrow frog \leftrightarrow

snake \leftrightarrow eagle

B. grasshopper \leftrightarrow grass \leftrightarrow frog \leftrightarrow

snake \leftrightarrow eagle

C. grasshopper \leftrightarrow eagle \leftrightarrow frog \leftrightarrow

grass \leftrightarrow snake

D. eagle *har* snake ↔ grasshopper ↔

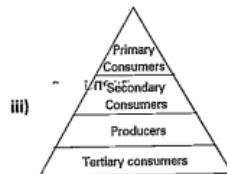
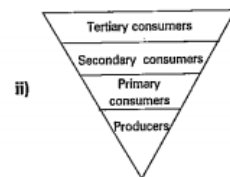
frog ↔ grass

Answer:



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83. Find out the pyramid with right position of the organisms.



A. i only

B. i,ii

C. All are correct

D. ii,iii

Answer:



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