



# BIOLOGY

## NCERT - NCERT Biology(Telugu)

### DIFFERENT ECOSYSTEMS

#### Example

1. Define an ecosystem. Explain it with a suitable example.



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2. Explain how diversity of living organisms helps in enriching any ecosystem.



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3. What happens when two animals having similar habits share one ecosystem? How could you conserve this type of bio-diversity?



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4. What is the difference between habitat and ecosystem?



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5. Which of the following is a producer? And why?

A. Fox

B.

C.

D.

**Answer:**



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**6. Which of the following is a producer? And why? Fungus**



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7. Which of the following is a producer? And why? Hen



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8. Which of the following is a producer? And why? Grass



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**9.** What do you understand by food web?

Describes own food web with the help of diagrammatic representation.



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**10.** How do green plant get their food ?



**Watch Video Solution**

**11.** What do other things do, animals need for their survival?



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**12.** What are the levels in food chain?



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**13.** What are the factors that destroy the ecosystem very quickly?



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**14.** Write about mangrove ecosystem.



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**15.** What are the biotic components and abiotic components in Mangrove forest?



**Watch Video Solution**



**16.** What is the difference between habitat and ecosystem?



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**17.** What are the Flora and Fauna of desert Ecosystem?



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**18.** What are the characters of desert plants?



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



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20. What does a food chain show?



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**21. Define the following terms.**

Primary Production



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**22. Define the following terms.**

Gross Primary Production



**Watch Video Solution**

**23.** Define the following terms.

Net Primary Production



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**24.** An ecosystem that had mice. What happens if more cats were added to it?



**Watch Video Solution**

**25.** Why Ecologists classified ecosystems on different basis?



**Watch Video Solution**

**26.** What do we study in an ecosystem?



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**27.** List out producers (Plants, Bushes, Trees), consumer.(herbivores and carnivores) and

decomposers that you observed in your agriculture field or school garden.



**Watch Video Solution**

**28.** Prepare a table on adaptations of the desert animal collect the data form your school library?



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**29.** Construct the food web with the following?

Grass Plants Grasshopper Frog Snake Eagle

Goat Fox Tiger Wolf Rabbit .



**Watch Video Solution**

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



**Watch Video Solution**

**31.** What is food web?



**Watch Video Solution**

**32.** The correct path of energy flow in an ecosystem is



**Watch Video Solution**



**33.** In grassland ecosystem, rabbit eats only plants. They eat plants faster than the plant can grow back. What must happen to bring the ecosystem into balance?



**Watch Video Solution**

**34.** Plant, tiger, rabbit, fox, eagle. Did you find any connection among the above list of things. If we remove Rabbit from the list what will happen?





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



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**36.** Do all forests have same type of vegetation?



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**37.** Are producers of forest ecosystem higher than its consumers?



**Watch Video Solution**

**38.** Are producers of forest ecosystem higher than its consumers?



**Watch Video Solution**

**39.** Do all forests have same type of vegetation?



**Watch Video Solution**

**40.** Habitat is The dwelling place for plants and animals is called habitat.



**Watch Video Solution**

**41.** Habitat is One habitat shared by different types of plants and animals.



**Watch Video Solution**

**42.** Draw the diagram of interdependence between the biotic components and answer the following questions.

What do the arrows in the figure indicate?



**Watch Video Solution**

**43.** Draw the diagram of interdependence between the biotic components and answer the following questions.

Trace the path from grass to tiger. You may trace out other paths as well.



**Watch Video Solution**

**44.** Draw the diagram of interdependence between the biotic components and answer the following questions.

On how many organisms is rabbit dependent?

Write their names.



**Watch Video Solution**

**45.** Draw the diagram of interdependence between the biotic components and answer the following questions.

What do the arrows in the figure indicate?



**Watch Video Solution**

**46.** Draw the diagram of interdependence between the biotic components and answer the following questions.

Where do plants get their food from?



**Watch Video Solution**

**47.** What do other things do, animals need for their survival?



**Watch Video Solution**



**48.** What is the difference between habitat and ecosystem?



**Watch Video Solution**

**49.** How can you define an ecosystem?



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**50.** What are consumers? Give examples.



**Watch Video Solution**

**51.** What are decomposers? Give examples.



**Watch Video Solution**

**52.** What is food web?



**Watch Video Solution**

**53.** Who coined the word ecosystem at first?



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**54.** What do we call the small level of ecosystem?



**Watch Video Solution**

**55.** What do we call the larger level of ecosystem?



**Watch Video Solution**

**56.** Name the biotic components.



**Watch Video Solution**

**57.** Name the abiotic components.



**Watch Video Solution**

**58.** What are mangroves?



**Watch Video Solution**

**59.** Where do mangroves grow?



**Watch Video Solution**

**60.** Name the producers presents in Coringa mangrove.



**Watch Video Solution**

**61.** Name the consumers present in Coringa.



**Watch Video Solution**

**62.** What are producers? Give example



**Watch Video Solution**

**63.** What are the different terms used for environment?



**Watch Video Solution**

**64.** What do we study in an ecosystem?



**Watch Video Solution**

**65.** How is an ecosystem made up of ?



**Watch Video Solution**

**66.** What type of relationship is seen in an ecosystem?



**Watch Video Solution**

**67.** How do plants and animals depend on one another?



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**68.** From where do all living things derive energy?



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**69.** Complete the blanks.

..... (1) is considered as the smallest units of solar energy ..... (2) of chloroplast trap this solar energy.



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**70.** Why do decomposers called recyclers?



**Watch Video Solution**

71. Where does the food web start from?



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72. Name the organisms where the food web ends.



[Watch Video Solution](#)

73. What happens when plants and animals die in a food web?



[Watch Video Solution](#)

74. What would happen if a bird eat insects?



[Watch Video Solution](#)

75. How do the changes take place in an ecosystem?



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**76.** Where is Coringa Mangrove situated?



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**77.** From which rivers Coringa mangrove receive water?



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**78.** Read the following statements and select the correct ones.

(i) A given species may occupy more than one trophic level in the same ecosystem at the same time.

(ii) Productivity of an aquatic ecosystem is less than that of a terrestrial ecosystem.

(iii) Producers constitute the first trophic level of a detritus food chain.



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**79.** What does a food chain how?



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**80.** How much place is occupied by the desert on land?



**Watch Video Solution**

**81.** Where do we find forests? How are they useful?



**Watch Video Solution**

**82.** Which organisms capture energy from sun?



**Watch Video Solution**

**83.** What type of producers can be seen in deserts?



**Watch Video Solution**

**84.** Why do cacti have succulent stems?



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**85.** Name the decomposers present in Coringa.



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**86.** Can living community live alone.  
(isolation)?



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**87.** In what conditions a living community lives?



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## Exercise

**1.** Explain how diversity of living organisms helps in enriching any ecosystem.



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2. What do you understand by food web?

Describes own food web with the help of diagrammatic representation.



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3. An ecosystem that had mice. What happens if more cats were added to it?



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4. What do we study in an ecosystem?



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5. How can you observe the ecosystem in your surroundings?



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6. List out producers (Plants, Bushes, Trees), consumer.(herbivores and carnivores) and

decomposers that you observed in your agriculture field or school garden.



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



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



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9. Fundamental unit of nature is

A. Habitat

B. Ecosystem

C. Biosphere

D. Food web

**Answer:**



**Watch Video Solution**

**10.** Food relations in ecosystems are

A. Food chain

B. Producers

C. Consumers

D. Decomposers

**Answer:**



**Watch Video Solution**

**11. Decomposers are also called as**

- A. Producers
- B. Consumers
- C. Recyclers
- D. Decayers

**Answer:**



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12. Largest ecosystem is

A. Land

B. Sea

C. Biosphere

D. Habitat

**Answer:**



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### 13. Artificial ecosystem

A. Forest

B. River

C. Crop field

D. Pond

**Answer:**



**Watch Video Solution**

14. Now the desert percentage of the land is

A. 15

B. 18

C. 33

D. 17

**Answer:**



**Watch Video Solution**

15. In the energy flow chart 'A' indicates

A. Light

B. Total assimilation

C. Gross production

D. Net production

**Answer:**



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**33.** From the discussion related to Venkatesh and Gaythri's doubt, we can conclude that there are several ecosystems around us. A field, a pond or your school garden all are examples of the same??.



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**34.** What living things did you find in your study area ? Try to count them if possible.



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**35.** Which kind of living thing was most common in your study area ?



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**36.** How was your study area different from those of other student groups ?



**Watch Video Solution**

**37.** Other than the living organisms what other things can you record for your study area ?



**Watch Video Solution**

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**Watch Video Solution**

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**Watch Video Solution**

**47.** Name the organisms where the food web ends.



**Watch Video Solution**

**48.** What happens when plants and animals die in a food web?



**Watch Video Solution**

**49.** Collect information on forests of Telangana and write the flora & fauna and fill

up the table



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**50.** Define the term 'long term crops' and 'short term crops'.



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**51.** What are short term crops ?



**Watch Video Solution**

**52. What are Kharif crops?**



**Watch Video Solution**

**53. What are Rabi crops?**



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**54. What is Global grain ? Why it is called so?**



**Watch Video Solution**

**55. What is broadcasting method?**



**Watch Video Solution**

**56. What is transplanting?**



**Watch Video Solution**

**57. What is paddy planter?**



**Watch Video Solution**

**58.** How can we identify that crop is infected by fungi ?



**Watch Video Solution**

**59.** Name the pest which infects paddy in Kharif season ?



**Watch Video Solution**

**60.** Name some pesticides which are used in paddy fields ?



**Watch Video Solution**

**61.** What is harvesting ?



**Watch Video Solution**

**62.** What is winnowing ?



**Watch Video Solution**



**63.** What is threshing ?



**Watch Video Solution**

**64.** Classify different ecosystems .



**Watch Video Solution**

**65.** Name the abiotic components in an ecosystem.



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**66.** What is the main function of food chain of Food web .



[Watch Video Solution](#)

**67.** Mention the three levels of a food chain ?



[Watch Video Solution](#)

**68.** What is the main function of producers ?



**Watch Video Solution**

**69.** How do consumers get their energy ?



**Watch Video Solution**

**70.** What is the function of decomposers ?



**Watch Video Solution**

**71.** Who coined the word ecosystem at first?



**Watch Video Solution**

**72.** Draw diagram of grass , plant , cricket , frog , snake , eagle , goat , lion , jackal , rabbit inter dependence of food ?



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**73.** How do you separate good seeds?



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74. What are the series of activities involved in the cultivation of paddy ?



[Watch Video Solution](#)

75. What would happen if over dosage of manure is added to soil?



[Watch Video Solution](#)

**76.** What is furrow and basin irrigation ?



**Watch Video Solution**

**77.** Mention the causes for changes in the ecosystem ?



**Watch Video Solution**

**78.** Draw a flow chart to describe the classification of ecosystem





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**79.** What are the main reasons for flowering of plant ?



[Watch Video Solution](#)

**80.** How is the soil prepared before sowing a seed ?



[Watch Video Solution](#)

**81.** What is seed drill ? How is it useful ?



**Watch Video Solution**

**82.** Describe the two types of manure



**Watch Video Solution**

**83.** How do farmers store the grain ?



**Watch Video Solution**



**84.** Describe the modern methods of irrigation



**Watch Video Solution**

**85.** Write short notes on Coringa Mangrove ecosystem .



**Watch Video Solution**

**86.** Describe the components of desert ecosystem



**Watch Video Solution**

**87.** Describe the forest Ecosystem ?



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**88.** The term "ecology" was first used by

A. Spallanzani,

B. A.G. Tansley

C. Louis

D. Robert

**Answer:**



**Watch Video Solution**

**89.** In \_\_\_\_\_ we study about the changes occurring in the habitat like organisms moving away from the habitat or entering the habitat.

- A. Ecology
- B. Psychology
- C. Ecosystem
- D. Psychology

**Answer:**



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90. The \_\_\_\_\_ is a part of ecosystem

A. Habitat

B. Habit

C. Ecology

D. Home

**Answer:**



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91. The living things like plants, animals and micro organisms are known as \_\_\_\_\_ components

A. Coringa

B. Abiotic

C. Core

D. Biotic

**Answer:**



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92. \_\_\_\_\_ is made up of groups of living things and their environments.

A. Ecology

B. Psychology

C. Ecosystem

D. Psychology

**Answer:**



93. Soil,water sunlight in an ecosystem are called as \_\_\_\_\_ components of the ecosystem .

A. Coringa

B. Abiotic

C. Core

D. Biotic

**Answer:**



94. All the organisms in an ecosystem derive \_\_\_\_\_ from food to live

A. Energy

B. Plant

C. Animals

D. Health

**Answer:**



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95. Plants, algae etc which use sunlight to make their food are called

A. Producers

B. Consumers

C. Detritus

D. Decomposers

**Answer:**



**Watch Video Solution**

96. \_\_\_\_\_ eat other living things and get their energy from them.

A. Producers

B. Consumers

C. Detritus

D. Decomposers

**Answer:**



**Watch Video Solution**

97. The organisms which feed on wastes, debris etc are called

A. Producers

B. Consumers

C. Detritus

D. Decomposers

**Answer:**



**Watch Video Solution**

**98.** The organisms that are called recyclers are

A. Producers

B. Consumers

C. Detritus

D. Decomposers

**Answer:**



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**99.** Why are decomposers called recyclers?

A. As they feed on debris

B. As they are the last component of an ecosystem

C. As they return the nutrients to the soil

D. All the above

**Answer:**



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**100.** Which of the following is a terrestrial ecosystem?

A. Fresh water ecosystem

B. Grassland ecosystem

C. Marine ecosystem

D. Aquatic ecosystem

**Answer:**



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101. Which of the following is a natural ecosystem?

- A. Forest ecosystem
- B. Desert ecosystem
- C. Fresh water ecosystem
- D. All the above

**Answer:**



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102. \_\_\_\_\_ mangrove is situated south of Kakinada Bay

A. Coringa

B. Desert

C. Creek

D. Detritus

**Answer:**



**Watch Video Solution**



**103.** Producers in coringa ecosystem are

A. Shrimp

B. Crab

C. Mangrove

D. Daphnia

**Answer:**



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**104.** Now the desert percentage of the land is

A. 16

B. 17

C. 18

D. 19

**Answer:**



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**105.** Producers in desert ecosystem are

A. Lichens

B. Blue green algae

C. Both

D. None

**Answer:**



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**106.** The decomposers in desert ecosystem are

A. Lichens

B. Detritus feeding bacteria

C. Thermophilic fungi

D. Xerophytes

**Answer:**



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**107.** \_\_\_\_\_ % of solar energy is absorbed in the atmosphere and scattered into space.

A. 77

B. 57

C. 71

D. 87

**Answer:**



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**108.** \_\_\_\_ \_% of heat from sun is expended in heating water and land and in evaporating water .

A. 34

B. 35

C. 36

D. 37

**Answer:**



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**109.** Elephant, Nilgai Deer, moles constitute \_\_\_\_\_ of a forest ecosystem.

A. Flora

B. Fauna

C. Decomposers

D. Producers

**Answer:**



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**110.** \_\_\_\_\_ are always at the base of a food chain

A. Flora

B. Fauna

C. Decomposers

D. Producers

**Answer:**



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**111.** Food chains have a minimum of \_\_\_\_\_  
levels

A. 2

B. 3



C. 4

D. 5

**Answer:**



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**112.** Producers in an ecosystem trap energy from \_\_\_\_\_

A. Animals

B. Sun

C. Plants

D. Bacteria

**Answer:**



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**113.** Which one of these is abiotic component of ecosystem

A. algae

B. Fungi

C. Sunlight

D. None of the above

**Answer:**



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**114.** Which one of the following is a Carnivorous animal?

A. Rabbit

B. Snake

C. Squirrel

D. Grasshopper

**Answer:**



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**115.** One of the following is a Herbivorous animal

A. Rabbit

B. Fox

C. Bat

D. Kite

**Answer:**



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**116.** Thermophilic fungi are decomposers in this Ecosystem

A. Grass land ecosystem

B. Desert ecosystem

C. Pond ecosystem

D. Mangrove ecosystem.

**Answer:**



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**117.** Microorganism are more in

A. Desert

B. Sea

C. River

D. Canal

**Answer:**



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**118.** The food web starts from one of them

A. Spirogyra

B. Amoeba

C. Insect

D. Deer

**Answer:**



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**119.** Recyclers are otherwise called as

- A. Producers
- B. Decomposers
- C. Herbivores
- D. Plant

**Answer:**





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**120.** Coringa mangrove is present in this river basin

- A. Krishna River
- B. Narmada River
- C. Godavari River
- D. Ganga River

**Answer:**



121. Habitat is a dwelling place for

A. Plants

B. animals

C. decomposers

D. Both plants and animals

**Answer:**



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122. In \_\_\_\_\_ we study about the changes occurring in the habitat like organisms moving away from the habitat or entering the habitat.

- A. Ecosystem
- B. Commensalism
- C. Symbiosis
- D. Parasitism

**Answer:**



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**123.** Quick changes in the ecosystem occur due to

A. Humans

B. disasters

C. Many animal

D. Many plant

**Answer:**



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1. A pond is a

A. A biome

B. A community of plants and animals

C. a natural ecosystems

D. None of the above

**Answer:**



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2. Largest ecosystem is

A. forests

B. lakes

C. grasslands

D. oceans

**Answer:**



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3. Which one is nature's cleaner

A. consumers

B. producers

C. symbionts

D. decomposers and scavengers

**Answer:**



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4. Maximum productivity is shown by which type of ecosystem

A. desert

B. aquatic

C. grassland

D. forest

**Answer:**



**Watch Video Solution**



5. Whale is

A. producer

B. a decomposer

C. secondary carnivore

D. herbivore

**Answer:**



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6. The resources which regulate the flow of energy in desert ecosystem is the availability of .....

A. light

B. minerals

C. water

D. temperature

**Answer:**



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7. Planktons are unicellular and multi cellular organisms which

- A. passively float on the surface of water
- B. are attached at the bottom
- C. actively swim on the surface
- D. remain held by surface tension

**Answer:**



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8. About 30% sunlight reach earth out of which 30% absorbed as heat by ground only 50% is absorbed by atmosphere how much sunlight is used in photosynthesis

A. 2%

B. 3%

C. 4%

D. 5%

**Answer:**



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9. One of the following animal is a omnivore

A. goat

B. sheep

C. crow

D. owl

**Answer:**



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## Improve Your Learning

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**Watch Video Solution**

**7. Who am I? I break down the remains of dead plants and animals**



**Watch Video Solution**



8. Which of the following is a producer? And why? Fungus

A. fox

B. fungus

C. hen

D. grass

**Answer:**



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**30.** Which of the following is a producer? And why?



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**31.** Plant, tiger, rabbit, fox, eagle. Did you find any connection among the above list of things. If we remove Rabbit from the list what will happen?



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**32.** List out producers (Plants, Bushes, Trees), consumer.(herbivores and carnivores) and

decomposers that you observed in your agriculture field or school garden.



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**33.** What do you understand by food web?

Describes own food web with the help of diagrammatic representation.



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



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