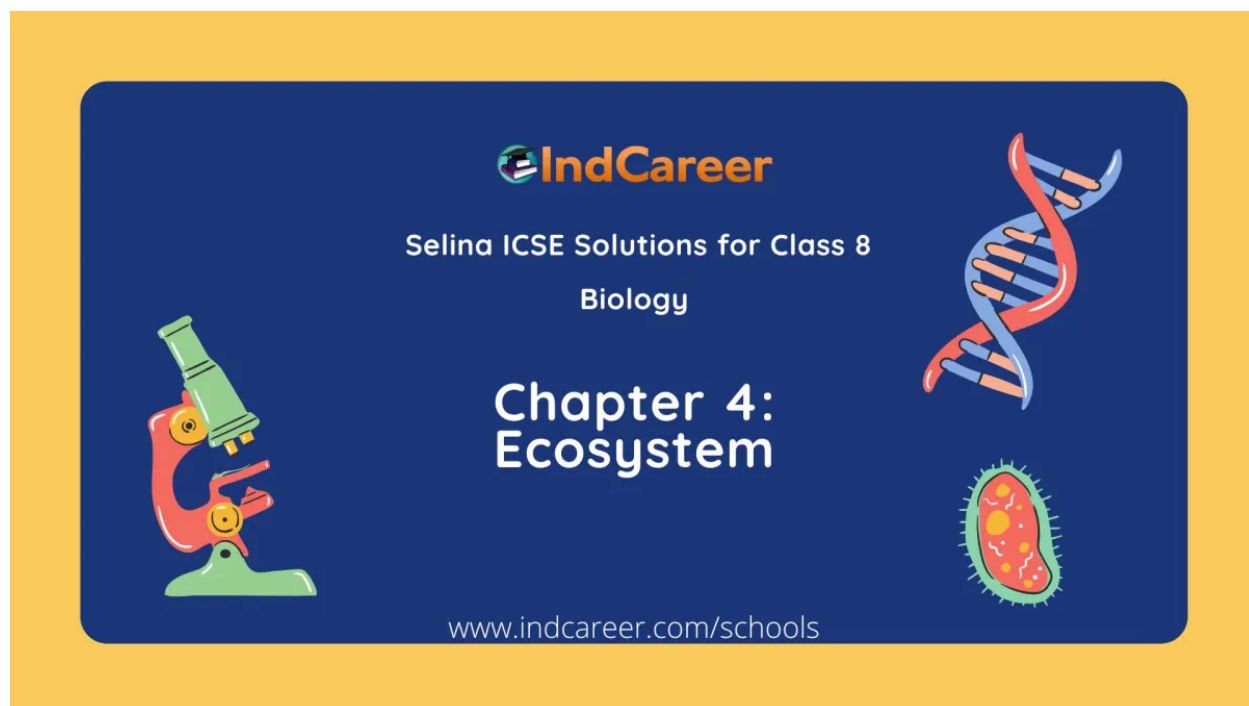


Selina Class 8 ICSE Solutions Biology :

Chapter 4- Ecosystem



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Selina Class 8 ICSE Solutions Biology :

Chapter 4- Ecosystem

Class 8: Biology Chapter 4 solutions. Complete Class 8 Biology Chapter 4 Notes.

Selina Class 8 ICSE Solutions Biology : Chapter 4- Ecosystem

Selina 8th Biology Chapter 4, Class 8 Biology Chapter 4 solutions

Multiple Choice Questions:

1. Put a tick mark against the correct alternative in the following statements:

a. The term “ecosystem” is derived from the Greek word “Oikos” meaning.

1. Body weight
2. Food
3. House
4. Size

Answer: 3. House

b. Rat in any food chain would occupy the position of

1. Tertiary consumer
2. Secondary consumer
3. Primary consumer
4. Producer

Answer: 3. Primary consumer

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C. Evergreen broad-leaved trees are characteristic of

1. Tropical rain forests
2. Temperate deciduous forests
3. Coniferous forests
4. All of the above types of forests.

Answer: 1. Tropical rain forests

Short Answer Type:

Question 1

Mention if the following statements are true (T) or false (F).

(a) Snakes are primary consumers (T/F)

Answer: False

(b) Some humans are strictly primary consumers & some others are of other types of consumers also (T/F)

Answer: True

(c) No ecosystem can survive without light (T/F)

Answer: True

(d) Cattle go to ponds for drinking water, so they are a constituent of the pond ecosystem (T/F)

Answer: False

Question 2

Match the items in Column I with as many items as possible in Column II.

Column I Column II

1. Deer (i) Autotroph
2. Parrot (ii) Ecosystem

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- 3. Cobra (iii) Pond
- 4. Pine tree (iv) Deciduous forests
- 5. Grasshopper (v) Parasite
- (vi) Carnivore
- (vii) Producer

Solution:

Column I Column II

- 1. Deer (iii) Pond
- 2. Parrot (iv) Deciduous forests, Autotroph, Producer
- 3. Cobra (vi) Carnivore
- 4. Pine tree (iv) Deciduous forests

Question 3

Rewrite the following in their correct sequence in a food chain:

- (a) Snake ---- Grasshopper ---- Grass ---- Frog
- (b) Grass ---- Tiger ---- Deer
- (c) Snake ---- Peacock ---- Rat ---- Wheat

Answer:

- (a) Grass ---- Grasshopper ---- Frog ---- Snake
- (b) Grass ---- Deer ---- Tiger
- (c) Wheat ---- Rat ---- Snake right arrow Peacock

Long Answer Type:

Question 1.

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Differentiate among primary, secondary and tertiary consumers. Give one example of each in a food chain.

Solution: Self-food producers are plants that produce food through photosynthesis i.e. these are autotrophs. There are plant-eating animals called herbivores as Rabbits, deer, pigeons, cows, buffaloes etc. and insects like grasshoppers, bees, butterflies and crickets also eat plants or plant products as fruits, flowers, pollen grains and plant juices. Such animals are called primary consumers.

Animals like tigers, lions, wolves, lizards, frogs eat the primary consumers. Birds vultures, kites, eagles eat the primary consumer, (i.e. These birds will eat the flesh of many birds like pigeons, sparrows.) These animals or birds are called secondary consumers. Animals like snakes are eaten by the peacocks, they eat the secondary consumers and are called tertiary consumers. Owls and eagles are top carnivores. So it is a quaternary consumer.

Question 2.

Define the term (a) flora and (b) fauna.

Solution:

Flora: Flora is the plants occurring in a particular area i.e. vegetative growth forms flora. Flora deals with plants. **Fauna:** The animals occurring in an area from the fauna of that area. Fauna deals with animals.

Flora and fauna of an area are the plants and animals found in that area.

Question 3.

List any three members each of the flora and fauna of tropical rain forests

Solution:

The tropical rain forest is on the western coast of India and in the north, east.

Flora: bamboos, ferns, shrubs (Evergreen trees).

Fauna: leopards, jungle cats, monkeys, snakes, flying squirrels, insects, snails, centipedes, millipedes.

Question 4.

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Define the following terms and give two examples in each case.

(a) Symbiosis (b) Parasitism (c) Predation

Solution:

(a) **Symbiosis:** It refers to relationships between organisms of different species that show on intimate association with each other. Relationships that provide at least one of the participating species with a nutritional advantage are known as symbiotic relationships.

Examples of Symbiosis Relationships are of Fungus and photosynthetic alga and Microbes and cattle.

(b) **Parasitism:** There is a type of symbiotic relationship between organisms of different species is called parasitism where one organism, the parasite, benefits at the expense of the other, the host. Examples of Parasitism are 4 tapeworms, flukes, the Plasmodium species and mosquitoes.

(c) **Predation:** A predator is any consumer that kills and eats another living organism in order to obtain energy. The organism being eaten is called prey. Examples are Lions, Deer, Wolves, and Eagles.



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- Chapter 3- Reproduction in Humans
- Chapter 4- Ecosystem
- Chapter 5- Endocrine System and Adolescence
- Chapter 6- The Circulatory System
- Chapter 7- The Nervous System
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