

## **CLASS 8 BIOLOGY ANSWERS OF LESSON 3. ECOSYSTEM**

Define the following :( in copy )

1. Producers : All living things that can manufacture their food are called producers or autotrophs. Only green plants can prepare their food by the process of photosynthesis and hence they are the only producers.
2. Consumers : Organisms that eat the food prepared by producers are called consumers or heterotrophs. All animals and human beings fall under this category.
3. Decomposers : They are the microorganisms like bacteria and fungi that feed upon the dead bodies of plants and animals and break them down into simpler substances.
4. Food chain : There is a series of organisms through which food energy flows in an ecosystem. The series of organisms which are linked with each other through a process of eating and being eaten form a food chain.
5. Food web : Food chains remain interconnected with each other through different types of organisms. The interconnected and interlocking pattern of food chains is known as food web.

### TEST YOURSELF

Fill in the blanks.( in book )

1. Socio-cultural environment
2. Crown
3. Parasitic
4. Predation

### EXERCISES

A. Fill in the blanks : ( in book )

1. Herbivores
2. Secondary consumers
3. Decomposers
4. Abiotic
5. Sun
6. Heat

B. True or False: (in book )

1. True
2. False
3. False
4. True
5. True
6. True

- C. Identify the errors ..... (in book )
1. Carnivores ( error ) answer ( tertiary consumers )
  2. Errors ( webs , chain ) answer ( chain , web )
  3. Error ( inverted ) answer ( upright )
  4. Error ( decreases ) answer ( increases)
  5. Error ( natural ) answer ( artificial )
  6. Error (temperate ) answer ( boreal )

- D. Choose the correct option : (in book )
1. All three
  2. Plants
  3. Forest
  4. Plants, animals and microorganisms
  5. Carbon dioxide
  6. Decomposers

SHORT AND PRECISE

- A.1. food web ( fig.3.6 write in a manner of flow chart ) (in copy)
2. Partly upright pyramid (Fig 3.8 write in manner of flow chart ) (in copy )

B. GIVE REASONS : (in copy )

1. Because they have green pigment chlorophyll in their leaves which helps them to prepare their own food.
2. Because it has involvement of various producer and consumers which are also interlinked to each other so its more like more than one linear sequence.
3. Because this energy is used by green plants to make their food. Light also influence other activities of plants like opening and closing of stomata, germination of seeds, and flowering.
4. Because water is an essential constituent of the body of all living organisms. All the chemical reactions which occur in the body need water as medium .Plants need water for photosynthesis and growth. Vegetation is less where water is scarce and it is dense in the areas of heavy rainfall.
5. Because they need to form a biological community or an ecosystem.

C. ANSWER IN SHORT (in copy )

1. They are the animals which eat both plants and animals. Examples include crow, cockroach, bear and human beings.
2. Decomposers are the microorganisms like bacteria and fungi that feed upon the dead bodies of plants and animals and break them down into simpler substances.

These microorganisms secrete certain digestive enzymes and decompose the dead bodies into minute particles called minerals.

3. Sometimes two organisms live together like single organism and mutually help each other .These organisms are called symbiotic organisms. This association between two symbiotic organisms is called symbiosis.

4. The plant life of a forest is called flora . The animal life of a forest is called fauna.

5. Predation is a biological interaction where a predator ( an organism that is hunting ) feeds on its prey ( the organism that is attacked ). Predators may or may not kill its prey prior to feeding on them ,but the act of predation often results in the death of the prey.