

Class-6 (Science)

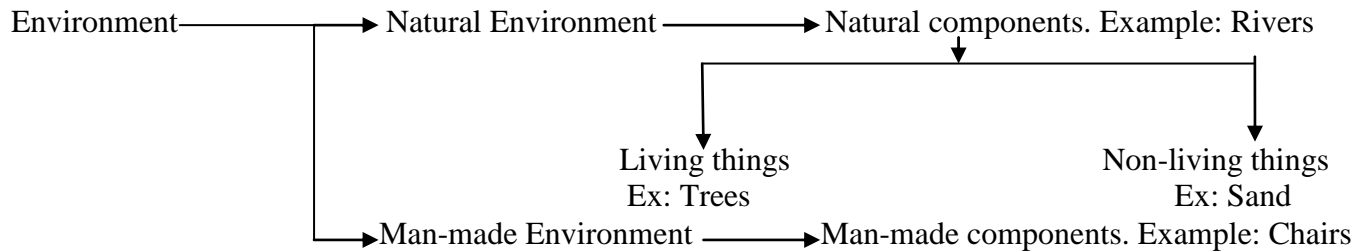
Chapter-14

Environmental Balance And Our Life

Everything around us is Environment. In a particular area, the living and non-living components both together constitute our environment.



#Classification of environment:



#Natural Environment: Natural environment is composed of naturally created matters. Natural environment consists of living and non-living organisms.

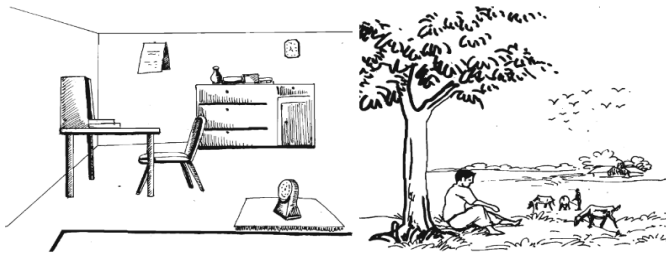


Fig. 14.2: Non Living and Living Environment.

(a) Living Organisms/ Biotic Components: The components of nature which have their lives are called living organisms. Example: Tree, Man etc.

(b) Non-Living Organisms/ Abiotic Components: The components of nature which don't have their lives are called non-living organisms. Example: Air, Soil etc.

#Man-made Environment: The environment which consists of man-made components is called man-made environment. Man-made components are created by human beings. Chair, table, pen etc. are the examples of man-made things.

#Reason of the different environment for plants and animals:

The following factors are responsible for this difference:

- Climate
- Soil
- Water
- Light
- Other factors

#Necessary basic components for plants and animals:

The basic components are:

- Water
- Air
- Food
- Sunlight
- Protection from enemies

#The causes of the extinction of Dinosaurs:



Different scientists have given different types of theories on the extinction of Dinosaurs. The theories or causes are given below:

- When the dinosaurs lived on the Earth, it was too hot. Suddenly the Earth became cold and the dinosaurs became extinct.
- When some other animals appeared on the earth, they started to eat the eggs of the dinosaurs. So, they gradually became extinct.
- Due to the change of environment the dinosaurs became failed to adapt themselves with that environment and became extinct.
- Due to the lack of oxygen they became extinct.

#The inter dependency between plants and other animals: The plants and other animals are dependent on each other. The inter dependency is described in the following table:

Dependency of plants on other animals	Dependency of other animals on plants
<ul style="list-style-type: none"> • Plants use sunlight to prepare their food and this process is known as Photosynthesis. Photosynthesis: Plants absorb sunlight with the help of chlorophyll and take carbon dioxide from the Environment. Thus plants prepare their foods and this process is called Photosynthesis. <p>During photosynthesis plants take carbon dioxide from environment which is exhaled by the human beings and other animals. At that time plants also give us oxygen which is inhaled by the human beings and other animals for respiration. Thus photosynthesis and respiration create a relationship between plants and other animals.</p> <ul style="list-style-type: none"> • Some plants reproduce with the help of insects. Plants need pollination for reproduction and it is caused with the help of insects or other animals. 	<ul style="list-style-type: none"> • Human beings and other animals depend on plants for food. • Human beings and other animals depend on plants for oxygen to respire. • Human beings and other animals depend on plants for shelter. • Human beings and other animals depend on plants for absorption of carbon dioxide from the environment to keep the environmental balance.

#The ways of preserving our environment:



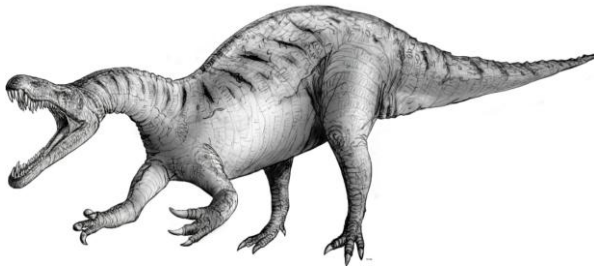
The ways of preserving the components of our environment are given below:

- Keeping the environment free from pollution
- Keeping the environment neat and clean
- Stopping the random killing of birds and animals
- Using natural resources in such a way that the balance between animals and natural resources is unharmed.

#Questions for self-assessment:

- Complete the whole exercise from your textbook.
- Answer the following questions:
 1. What is Environment?
 2. Classify the environment through a complete flow chart.
 3. Give the following definitions:
 - (a) Natural Environment
 - (b) Man-made Environment
 - (c) Living organism
 - (d) Non-living organism
 4. Why do the plants and animals stay in different places?
 5. What are the basic components needed by plants and animals both?
 6. Write down the theories behind the extinction of dinosaurs.
 7. Discuss the inter dependency between plants and animals.
 8. How can we preserve our environment?

#Creative question for practice:



- (a) What are the main elements of non living environment?
- (b) Write down the differences between living and non-living environment.
- (c) Explain the causes of the extinction of the animal shown in the stem.
- (d) Explain the ways of preserving different components of environment.

Prepared by:

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