

Tender Heart High School, Class-V (Geography)

Chapter-15

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Good Morning students,

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Today we are going to set our focus on the topic "Understanding Our Environment" chapter-15, which is given on page number-87 of your textbook 'Time Trek-5'. All the students may kindly open page number-87 and be ready with your geography notebooks. If all the students are ready then let us start our today's topic.

Environment :- The environment includes all living and non-living components in the surroundings. Thus, the environment is everything that surrounds and influences a living organism. It includes the place where we live, the natural vegetation, the people, as well as man-made things.

Components of the Environment :-

The environment can be broadly classified into - 1) Natural Environment

2) Human or man-made environment

① Natural Environment :- It consists of air, water, land as well as living organisms such as plants, animals, human beings and

even microbes (single-cell organisms). The living organisms form the biological or biotic components of the environment. The biotic components of the environment can be grouped into three categories :-

1) Producers :- These living organisms make food directly with the help of the environment. For example, plants make their food using sunlight, water, carbon dioxide from the environment. They are also called autotrophs.

2) Consumers :- This category of biotic component depends directly or indirectly on the producers for food. Examples of heterotrophs include herbivores, carnivores, omnivores and parasites.

3) Decomposers :- The living things are dependent on producers for food. They get their food from plants and animals. They are also heterotrophs. For example, human beings and wild animals.

② Abiotic Components :- Abiotic components are non-living things. These are essential for survival of living beings. For example :-

1) Land :- Land is the earth's solid surface. The topmost layer of land is called soil. Weathering of rocks results in formation of soil. It provides habitat to human beings, animals and plants. It is home to many living organisms and provides human beings with the resources to carry out agricultural activities, which in turn sustains their life. We also get valuable minerals from the land.

2) Water :- Water is present on the earth's surface in the form of lakes, rivers, ponds, oceans etc. It is also found beneath the earth's surface and in the atmosphere in the form of vapour. Water is a vital survival component for the human beings, plants and animals.

3) Air :- The earth is covered by a layer of air known as atmosphere. Air is a mixture of gases like nitrogen, oxygen and carbon dioxide. Oxygen and carbon dioxide are essential components of air which are necessary for survival of plants, animals and humans on earth. CO_2 helps plants to make food. Human beings need oxygen to breathe which is given by plants during the

the preparation of their food. Ozone layer of the atmosphere protects the earth from harmful ultraviolet rays emitted from the Sun.

Home-work :-

List six items from your surrounding. Now categorise them under the following heads and complete the table.

Object	Natural	Man-made

That's all for today students.

Please go through the assignments carefully for better understanding of the concept.

Thank you.