

Important Terms

Natural Resources :— Substances present in nature such as air, water, soil, coal, Minerals, that are useful to mankind in many ways.

Lithosphere :— It is the outer crust of our planet, called Earth. (zone of Land)

Hydrosphere :— It is the zone of earth's surface covered with water (zone of water)

Atmosphere :— It is multilayered gaseous envelope of air that covers the whole of our planet Earth like blanket.

Biosphere :— It is the life supporting zone of the Earth where the atmosphere, the hydrosphere and Lithosphere interact and make life possible.

Components of Biosphere.

- * Abiotic Components (Physical Component) :— It consists of air, water, soil, temperature and light. These are essential for survival of living things.
- * Biotic Components :— All types of living things constitute the Biotic Components. These are Plants, Animals and microorganisms.

Composition of Air.

* Various gases: —

1. Nitrogen (N_2) ————— 78%
2. Oxygen (O_2) ————— 21%
3. Carbon dioxide (CO_2) ————— 0.03%
4. Argon ————— 0.93%
5. Other inert gases + Water vapour — 0.04%

Importance of Atmosphere.

(a) In climate control: — Act as blanket of Earth.

* It is a bad conductor of heat, It keeps the average temperature of Earth fairly constant during the day and even during the course of whole year.

* During night it slows down the escape of heat into outer space. Thus, the Earth receives right amount of heat, which helps in climate control.

(b) The movement of Air: — The atmosphere gets heated by the radiation of sun; re-radiated by the land or by water bodies. As a result of heating movement is caused in air, called wind.

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In Coastal regions two types of air blow: -

(a) Land Breeze — It is the breeze which blows during the night from land to sea side.

* Creation of Low pressure area near by sea side is the main cause of Land breeze. During day time sea water is heated and provide the heat to air around the sea. After heating air become lighter and leave the place by which low pressure is produced, by which air from the land side rushed towards sea side.

Facts — * Soil/Land heats up faster than water.
* Soil/Land cools faster than water.

(b) Sea-Breeze — Breeze which blows during the daytime which is from sea side to land.

* During the daytime low pressure is created near by land because land after getting rays of sun, heats up faster, so the rushing of air is from sea side to land.

* Nearby Sea-side the pressure of air is high.