

Unit 2 Ecosystems

Definition and concept of Ecosystem• Structure of ecosystem (biotic and abiotic components); Functions of Ecosystem: Physical (energy flow), Biological (food chains, food web, ecological succession), and Biogeo-chemical (nutrient cycling) processes Concepts of productivity, ecological pyramids and homeostasis • Types of Ecosystems: Tundra, Forest, Grassland, Desert, Aquatic (ponds ,streams, lakes, rivers, oceans, estuaries); importance and threats with relevant examples from India• Ecosystem services (Provisioning, Regulating, Cultural, and Supporting); Ecosystem preservation and conservation strategies; Basics of Ecosystem restoration

ECOSYSTEM

Concept of an Ecosystem:

Living organisms cannot live isolated from their non-living environment because the latter provides materials and energy for the survival of the former i.e. there is interaction between a biotic community and its environment to produce a stable system; a natural self-sufficient unit which is known as an ecosystem. Ecosystems are the parts of nature where living organisms interact among themselves and with their physical environment.

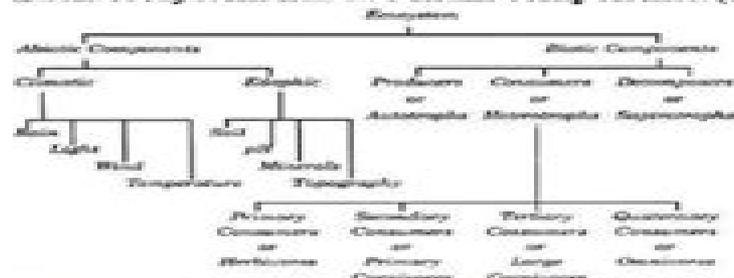
The term 'ecosystem' was coined by A. G. Tansley, an English botanist, in 1935.

An ecosystem is the structural and functional unit of ecology (nature) encompassing complex interaction between its biotic (living) and abiotic (non-living) components.

For example- a pond is a good example of ecosystem. A pond, lake, desert, grassland, meadow, forest etc. are common examples of ecosystems.

Structure and Function of an Ecosystem:

Each ecosystem has two main components: (1) Abiotic (2) Biotic



Schematic Representation of the Structure of an Ecosystem.

1) Abiotic components (Nonliving):

The abiotic component can be grouped into following categories:-

- (a) Climatic Factors: Which include rain, temperature, light, wind, humidity etc
- (b) Edaphic Factors: Which include soil, pH, topography minerals etc.

The functions of important factors in abiotic components are given below: Soils are much more complex than simple sediments. They contain a mixture of weathered rock fragments, highly altered soil mineral particles, organic matter, and living

How Ecosystems Work Section Review

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