

TOPIC

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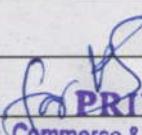
Year:- 2020-21

Sub :- Environmental
Science.

Project Name:- Ecosystem.

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Ecosystem

An ecosystem (or ecological system) consists of all the organisms and the physical environment with which they interact. These biotic and abiotic components are linked together through nutrient cycles and energy flows. Energy enters the system through photosynthesis and is incorporated into plant tissue. By feeding on plants and on one another, animals play an important role in the movement of matter and energy through the system. They also influence the quantity of plant and microbial biomass present. By breaking down dead organic matter, decomposers release carbon back to the atmosphere and facilitate nutrient cycling by converting nutrients stored in dead biomass back to a form that can be readily used by plants and microbs.

Ecosystems are controlled by external and internal factors.

colors

Ecosystem processes:

External and internal factors

Ecosystems are controlled by both external and internal factors. External factors also called state factors, control the overall structure of an ecosystem and the way things work within it, but are not themselves influenced by the ecosystem. On broad geographic scales, climate is the factor that "most strongly determines ecosystem processes and structure."

~~Climate determines the biome in which the ecosystem is embedded.~~

Rainfall patterns and seasonal temperature influence photosynthesis and thereby determine the amount of energy available to the ecosystem.

~~Precipitation determines the nature of the soil in an ecosystem, and influences the supply of mineral nutrients. Topography also controls ecosystem processes by affecting things like microclimate, soil development and the movement of water through a system.~~

~~For example, ecosystems can be quite different if situated in a small depression on the landscape, versus one present on an adjacent steep hillside.~~

