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Sub :- Environmental Science.

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Project Name :- Ecosystem.

Pract :-
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ECOSYSTEM

An ecosystem (or ecological system) consists of all the organisms and the abiotic pools (or physical environment) with which they interact. The biotic and abiotic components are linked together through nutrient cycles and energy flows.

Ecosystem process:-

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 temperatures influence photosyn-

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thesis and thereby determine the amount of energy available to the ecosystem. Unlike external factors, internal factors in ecosystems not only control ecosystem processes but are also controlled by them. While the resource inputs are generally controlled by external processes like climate and parent material, the availability of these resources within the ecosystem is controlled by internal factors like decomposition, root competition or shading.

Primary production:-

Primary production is the production of organic matter from inorganic carbon sources. This mainly occurs through photosynthesis. The energy incorporated through this process supports life on earth, while the carbon makes up much of the organic matter in living and dead biomass, soil carbon and fossil fuels. It also drives the carbon cycle, which influences global climate via the greenhouse effect.

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