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17 JANUARY

23

MONDAY

Wk 04 DAY 023-342

(1)

JANUARY							2017
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B.A. Part - III

Paper - VII

Date - 29/04/23

Environment Geography (Optional Paper)

* Concept of Ecology

→ Environment :-

It is the sum total of all conditions and influences that affect the development and life of all organisms on earth surface.

→ Ecology :-

It is the branch of science that deals with the study of interactions between living organisms and their physical environment.

⇒ Environment and Ecology both are closely interrelated and they have continuous interaction so that any change in the environment has an effect on the living organisms and vice-versa.

→ The word ecology is derived from Greek words "oikos" meaning "house, habitat or place of living" and "logos".

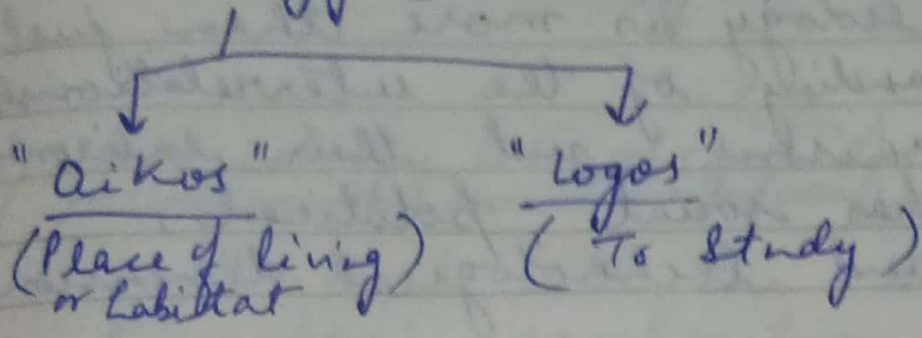
A plan is a list of actions arranged in whatever sequence is thought likely to achieve an objective.

- John Argent

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meaning "to study".

Ecology (Greek words)



→ Means To study the Place of living or Habitat.

→ The meaning of the word Ecology was given by German Biologist "Haeckel" in 1869.

→ Ecology is defined as the study of interrelationship of different organisms with each other and with their environment.

→ Ecology is concerned with the general principles that apply to both animals and plants.

→ It is very important for humanity to understand its environment because we have the ability to modify the environment through the use of technology and through

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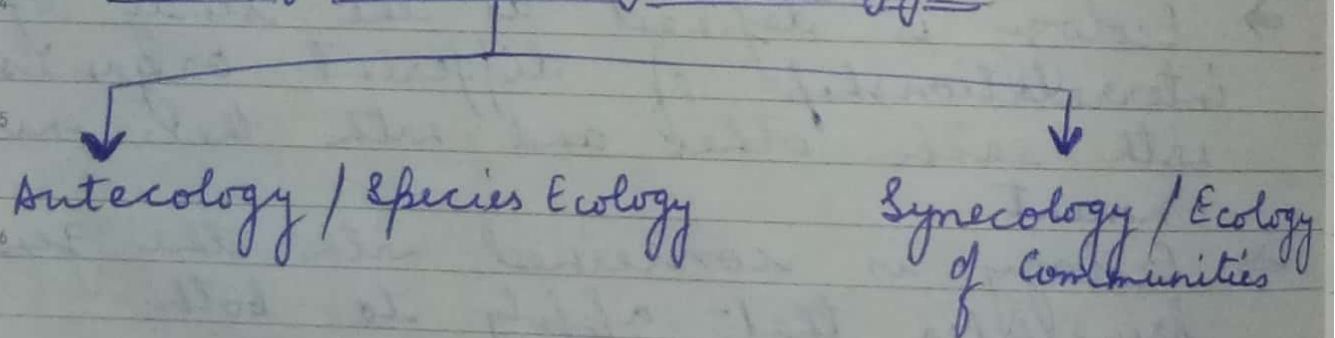
25 WEDNESDAY
 Wk 04 DAY 025-340

overexploitation of natural resources as a result of greed or sheer pressure of numbers.

→ Therefore, ecology is more than just the understanding of the interrelationships between organisms and their environment it also has social, political, economic and technological dimensions.

→ Ecology is also study of evolutionary development of organisms, the biological productivity and energy flow in the natural system.

→ Classification of Ecology :-



1.7 Autecology / Species Ecology :- → It deals with the study of an individual species of organisms and its population.

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THURSDAY
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26

study the behavior and adaptations of particular species to the environmental condition at every stage of life cycle.

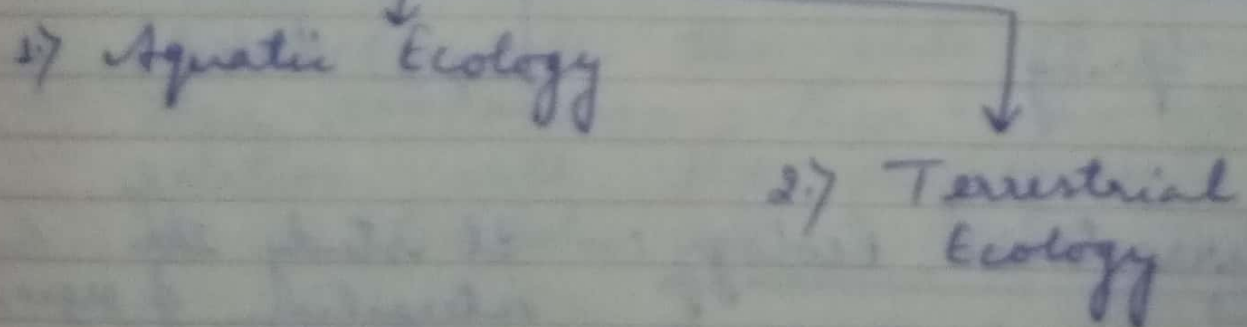
2.7 Synecology / Ecology of Communities :->

It deals with the study of communities, their composition, their behavior and relation with the environment or nature. It is divided into 3 types.

- (i) Population Ecology
- (ii) Community Ecology
- (iii) Ecosystem Ecology

* Based on Environment or Habitat

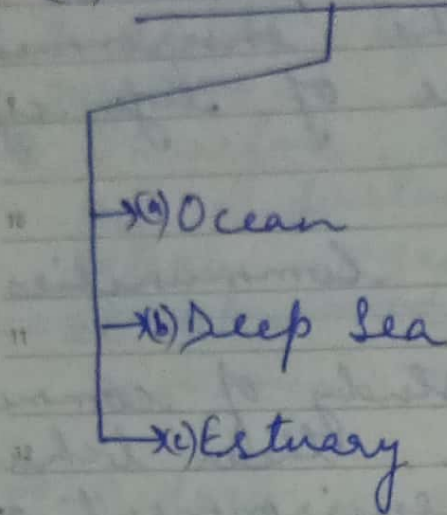
Ecology is classified into 2 parts :-



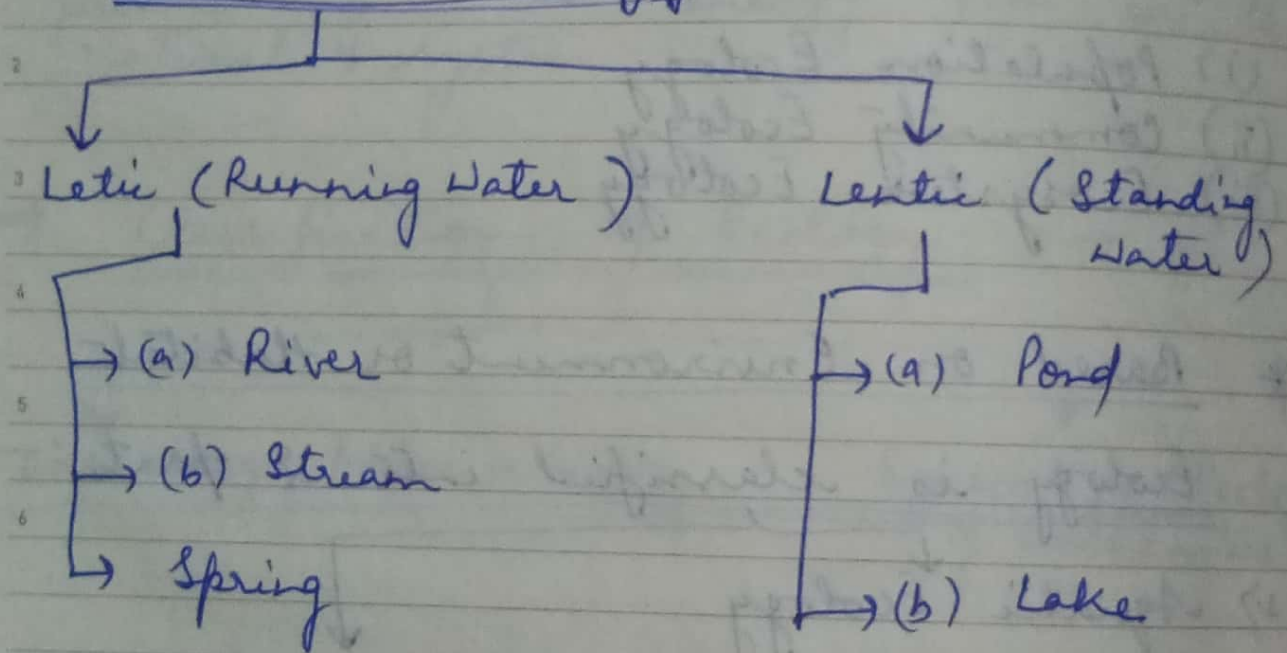
1.7 Aquatic Ecology :-> It study the interaction of organisms in the water

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(i) Marine Water Ecology :-



(ii) Freshwater Ecology :-



2.) Terrestrial Ecology :-

It study the interaction of organism on land.

- (a) Grassland Ecology
- (b) Forest Ecology
- (c) Desert Ecology

A good plan is like a road map: it shows the final destination and usually the best way to get there

- H. Stanley Judd