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### UNACADEMY Basic Of Environment Written By.Saurbh Pandey

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- Explanation
- Derivation
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- Shortcuts
- Previous Years Question With Solution

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# ENVIRONMENT

Basics of energy & Environment :- (20-24 M)

- ① Basics
- ② Biodiversity & Conservation
- ③ Global warming & climate change
- ④ Pollution
- ⑤ Energy
- ⑥ EIA

2017 → 32M  
18 → 26M  
19 → 24M  
20 → 16M

3, 4, 5, 17, 632

## Ch-1 Basics

Ecology = oikos + logos  
(Greek)      ↓      ↓  
                  Habitat      study  
                  (Home)

→ The word ecology was given by "Ernst Haeckel."  
but defined by Alexander von Humboldt  
(father of ecology)

Ecology:- study of ecosystems

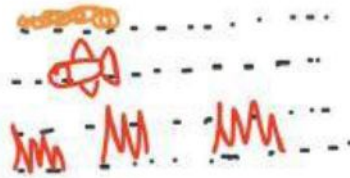
This word was given by A.G. Tansley  
but described by E.P. Odum

↓  
father of ecosystem  
ecology

Ramdev Mishra = father of ecology in India



forest  
ecosystem

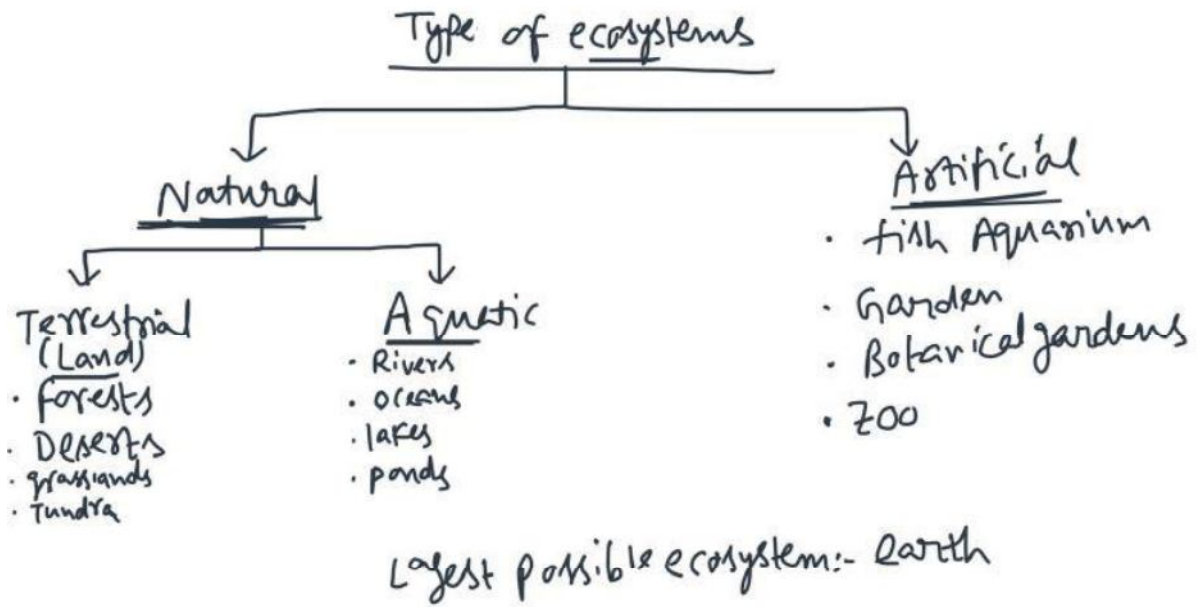


Lake  
ecosystem

Ecosystem:- All living & Non-living things in an area.  
(Biotic)                      (Abiotic)  
or

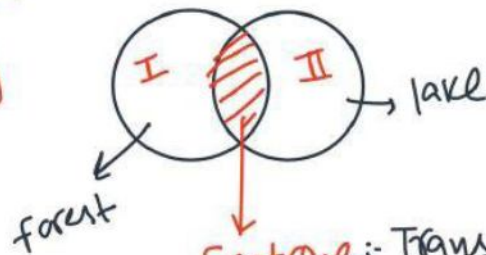
It is the region in which living organisms  
interacting with their surrounding envt.

Biotic:- Plants, Animals, micro-organisms  
Abiotic:- Soil, temp, humidity, Rocks etc.



Ecotone:-

clear sharp boundary



Ecotone:- Transitional zone b/w 2 different ecosystems  
 Ex:- wetlands, delta, estuaries

→ In the ecotone region, some of the species population density is higher than the adjoining regions & this phenomenon is known as "edge effect."

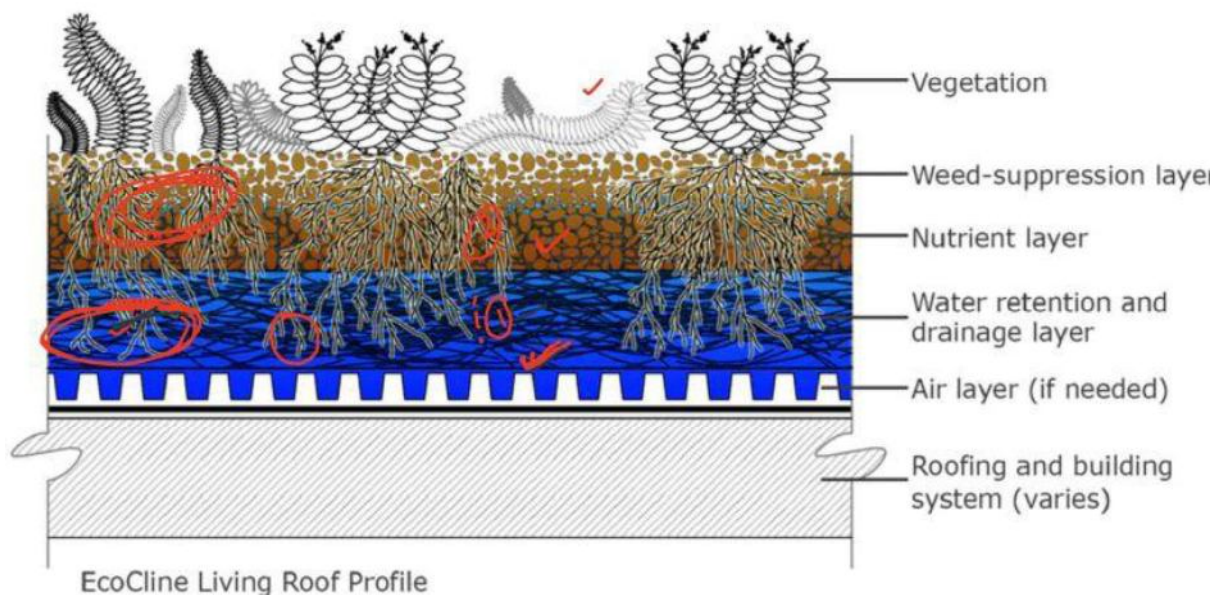
Ecocline:- It is a degradation from one ecosystem to another where there is no sharp boundary b/w the ecosystems.

→ It is the joint expression of associated community & complex environmental gradients.

→ It refers variation in physiochemical envmt of ecotone.  
ie, an ecotone indicates thermocline (temp gradient),  
chemocline (chemical gradient), halocline (salinity gradient) etc

→ It describes variation in forms of species  
based on genetic differences

→ The term ecocline was given by Julian Huxley  
in 1938.



## 10. TYPES OF BOUNDARIES:

1. ECOTONE: TRANSITIONAL ZONE BETWEEN TWO COMMUNITIES *or 2 different ecosystems*

✓ 2. ECOCLINE: THE LINES OF DIFFERENT COMMUNITIES THAT EXIST WITHIN AN ECOTONE.

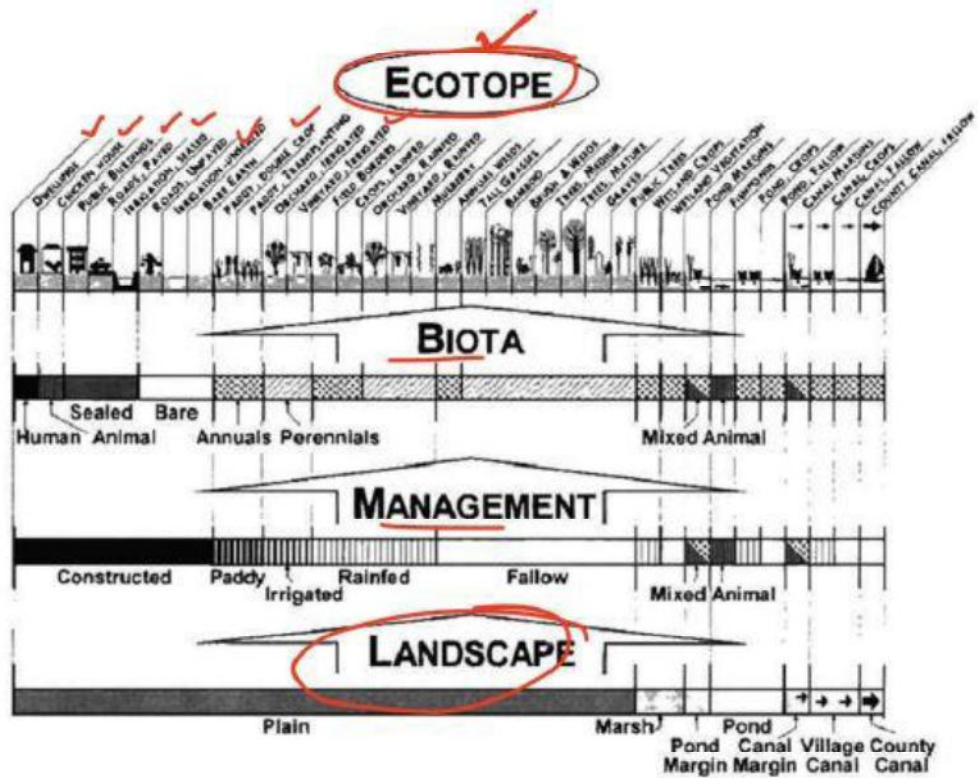
3. ECOTOPE: SIMILAR AREA IN AN ECOTONE. THEY MIGHT BE DISTINCT AND RELATIVELY FAR SPACED BUT HAVE SIMILAR CHARACTERISTICS AND THUS LIFE STRUCTURE.

11 DISRUPTANCE: AN EVENT THAT ALTERS THE PROCESS OF CHANGE OR STABILITY OF

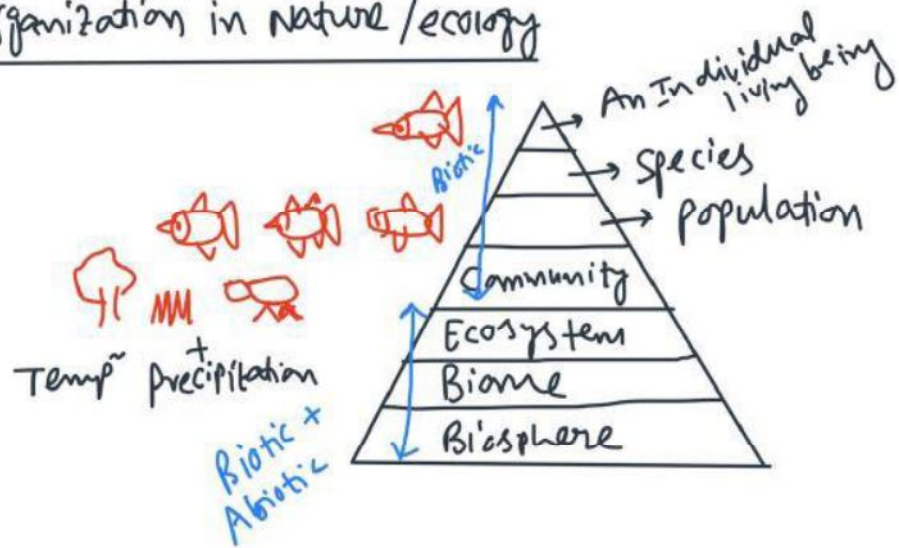
Ecotope:- It is an ecological habitat on the scale of individual organisms sharing space.

→ many ecotopes together, either adjacent or overlapping, constitutes an Eco-region.

→ An ecotope comprises all the constituent parts found in that locality on the same scale such as landforms, rocks, soils, flora & fauna.



Levels of organization in nature/ecology

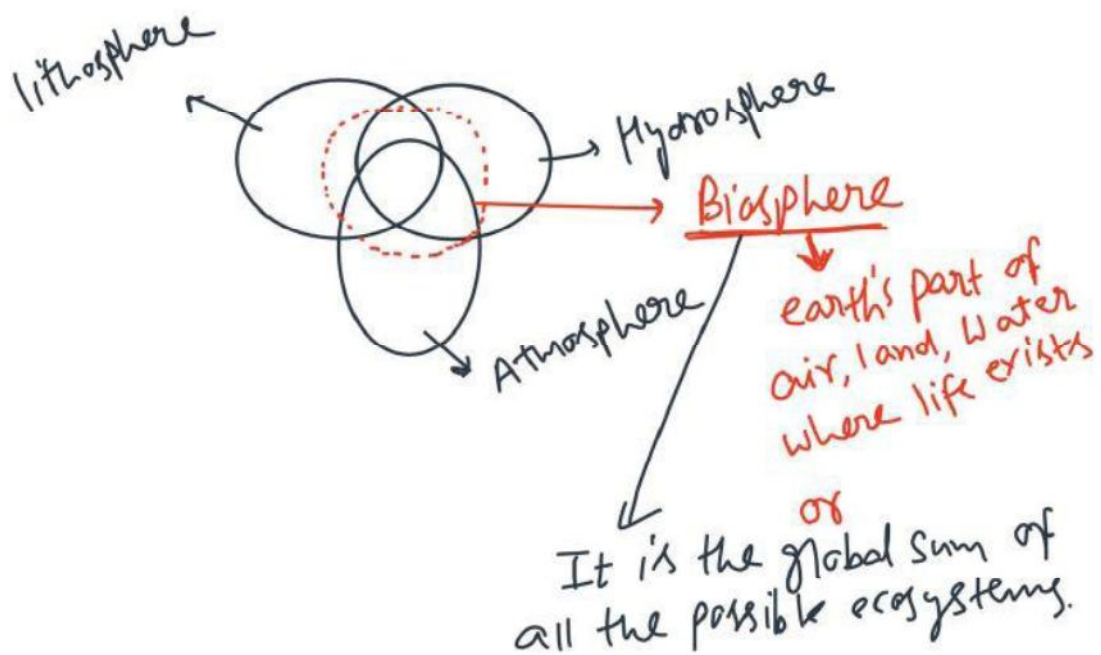




Species:- Those individuals which shows resemblance in their appearance & behaviour.

Population:- set of Individual of the same species interacting with each other in any specific geographical region.

community:- set of all interacting population of different species in any geographical region.



→ Biosphere is the largest ecosystem. i.e., earth.

- Biome = continuous large area
- Set of ecosystems sharing similar characteristics with their abiotic factors & adapted to their environment
- A biome is more complex & extensive than an ecosystem.
- Temp & precipitation are the 2 most common & important factors due to which biome varies from region to region.

