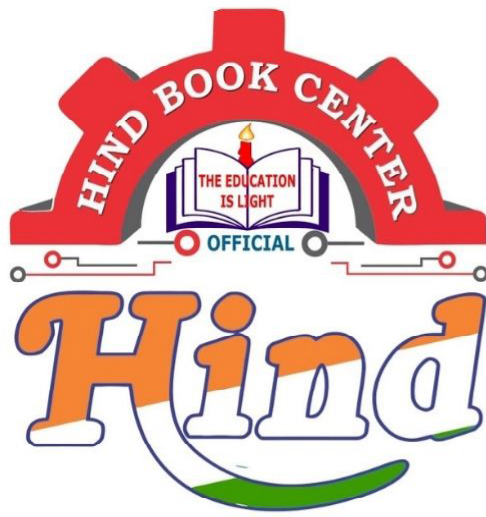




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Basics of Environment and Energy

- ① Basics of Environment → Related to Ecosystem & Ecology Areas
- ② Biodiversity & Conservation
- ③ Environmental pollution and Degradation
- ④ Climate change
↳ Including ozone depletion
- ⑤ Environmental Impact Assessment
- ⑥ Basics of Energy

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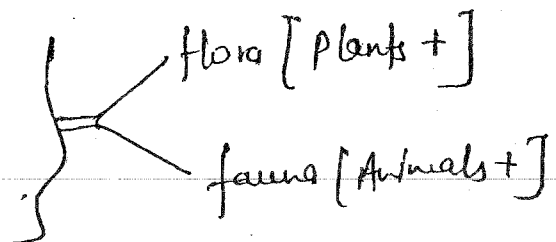
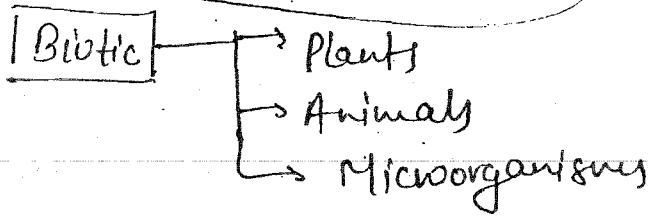
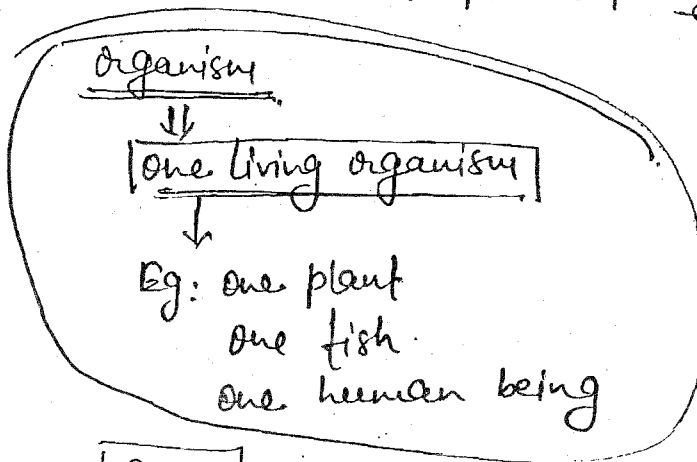
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1. Basics of Environment

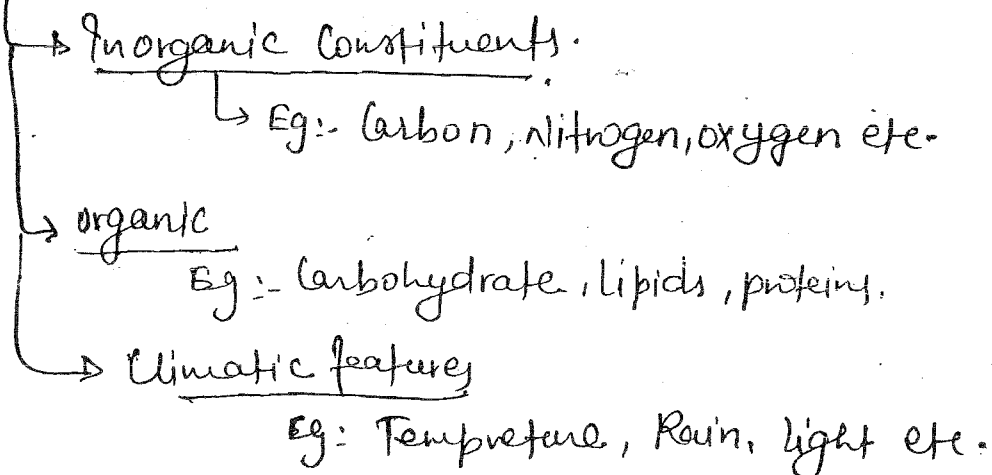
What is Environment? → origin - to word - 'Environeer'
to Surround
(Neighbourhood)

Environment is
→ Sum total of All Living and non living (Abiotic)
(Biotic)

factors and influences surrounding an organism is
Environment for that organism.



Abiotic (non living)



As per environment Protection Act 1986

[Called as umbrella law for Environment in India].

Section (2) Environment Includes

land, Air, and water and the interrelationship which exist among and b/w land, air & water and human beings other living creatures, plants, microorganisms and property.

Effect human of

Anthropogenic
human created
road, bridge etc

Biotic
Organism

one living being

Population

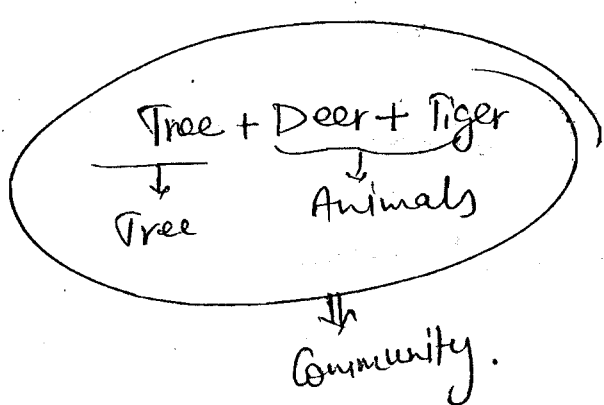
More than one organism of particular species.

Eg:- 100 tigers
Eg:- 1000 human being

Species problem

No one universally application Definition

(i) Concept of Species.



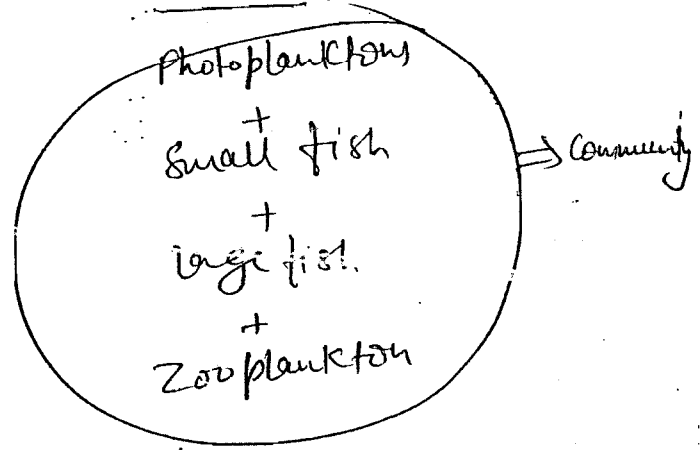
Community

Two or more population assembled

Two or more species collected at a place.

It is also called "Biocenosis"

At a place



Generally

↳ species a specific group of organisms have reproductive isolation.

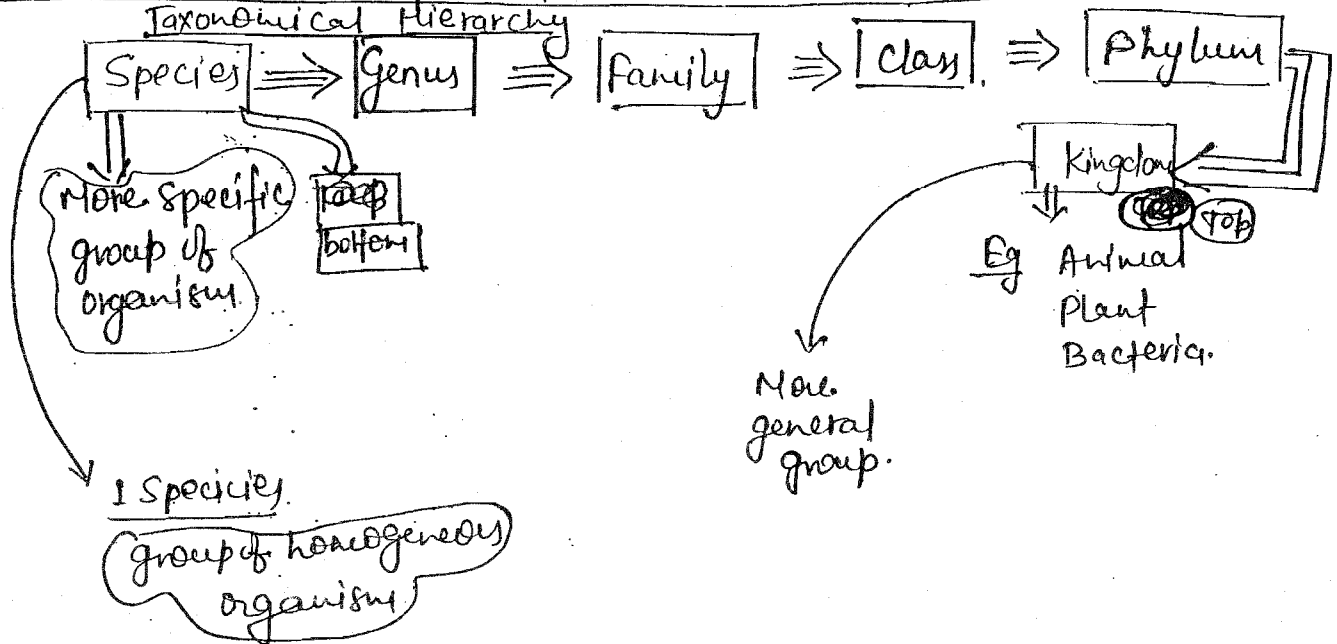
Called as Biological species concept

(i.e.) breed within the group & are Capable of producing fertile & off spring.

① Tiger ② leopard ③ Lion ④ Jaguar ⑤ Puma ⑥ cheetah

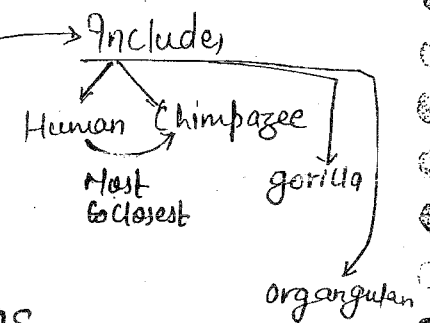
~~Scrub~~ snow leopard ⑦ Clouded leopard ⑧ Bunda Clouded leopard

Taxonomical Hierarchy



Human

- Kingdom — Animal
- phylum — Chordata
- Class — Mammal
- order — Primate
- Family — Hominidae
- genus — Homo
- Species — Homo sapiens



Asian Elephant

↓
one species

↓
3 ~~var~~ varieties

Indian Sri Lankan Sumatran
Elephant Elephant Elephant

3 species of Elephants

Asian
Elephant

African
Bush
Elephant

African
Forest
Elephant

① Biggest terrestrial species / land based ⇒ Elephant

② Biggest species to exist on Earth ⇒ Blue whale

} Mammals

Panthera [genus]

Tiger

↓
Species
①

Snow
leopard

S-2

↓
Cannot Roar

Leopard

↓
S-3

Lion

↓
S-4

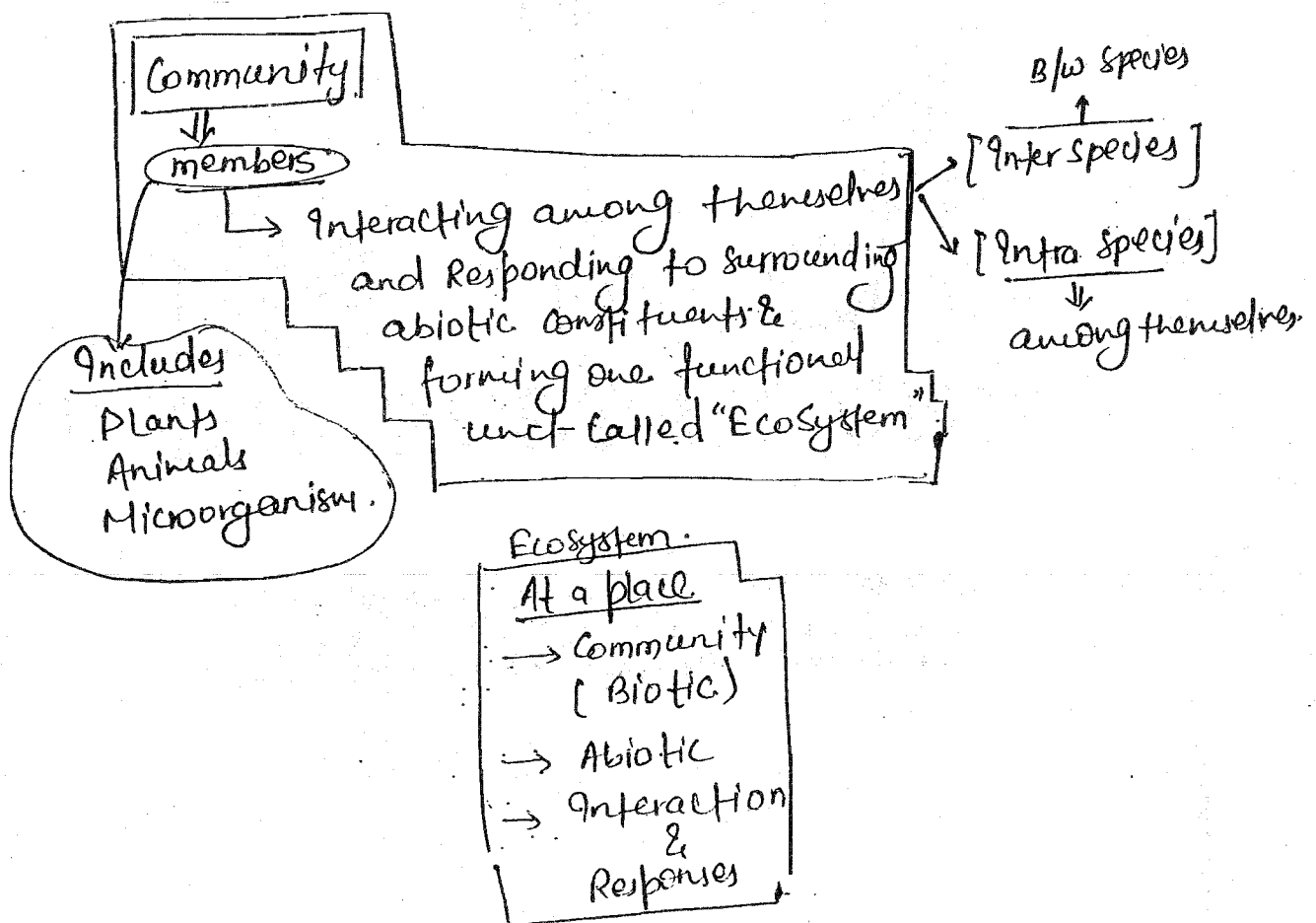
Jaguar

↓
S-5

Acinonyx (genus)

↓
Species

[Cheetah]



Ecosystem

A Complex, Dynamic functional unit of relationship & Interactions b/n and within the species and with their Surrounding.

It is self sufficient and self regulatory in nature.

It performs various functions and provides various Ecosystem Services (Benefits).

Eg
 • lake • Pond • River
 • Estuary • well • Forest
 • Grassland • Desert etc.