

Succession

✓ Replacement

of

one community at

a location by another

over a period of time.

long

Today



Sere - 0
(Seral
stage)

KHAN SIR

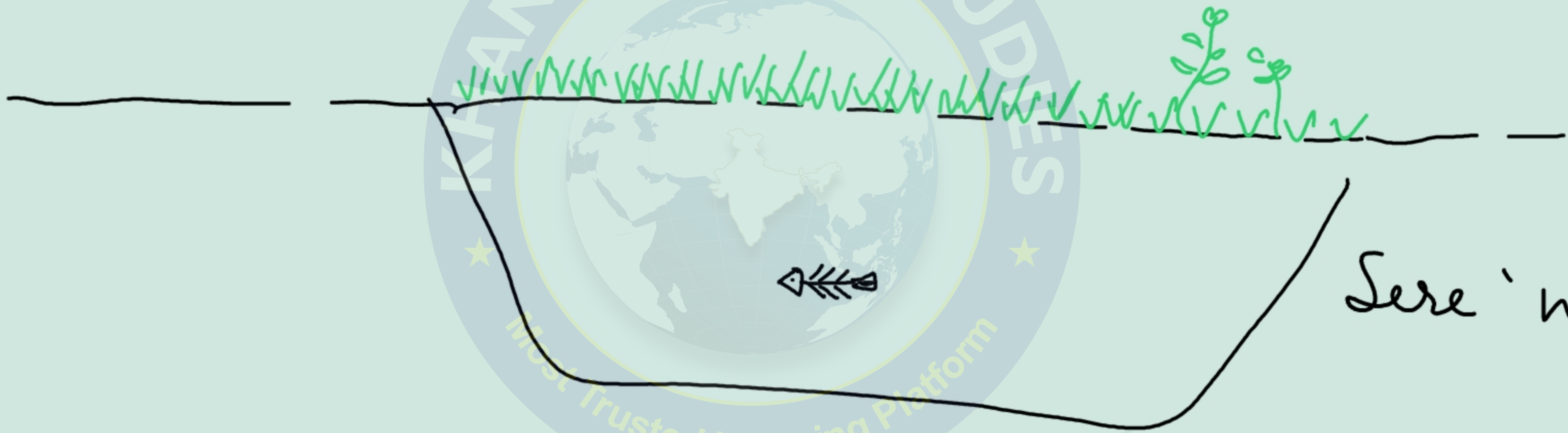
after 500 yrs.



Scene 1



after 1000 yrs



after 2000 yrs.



Climax
Community

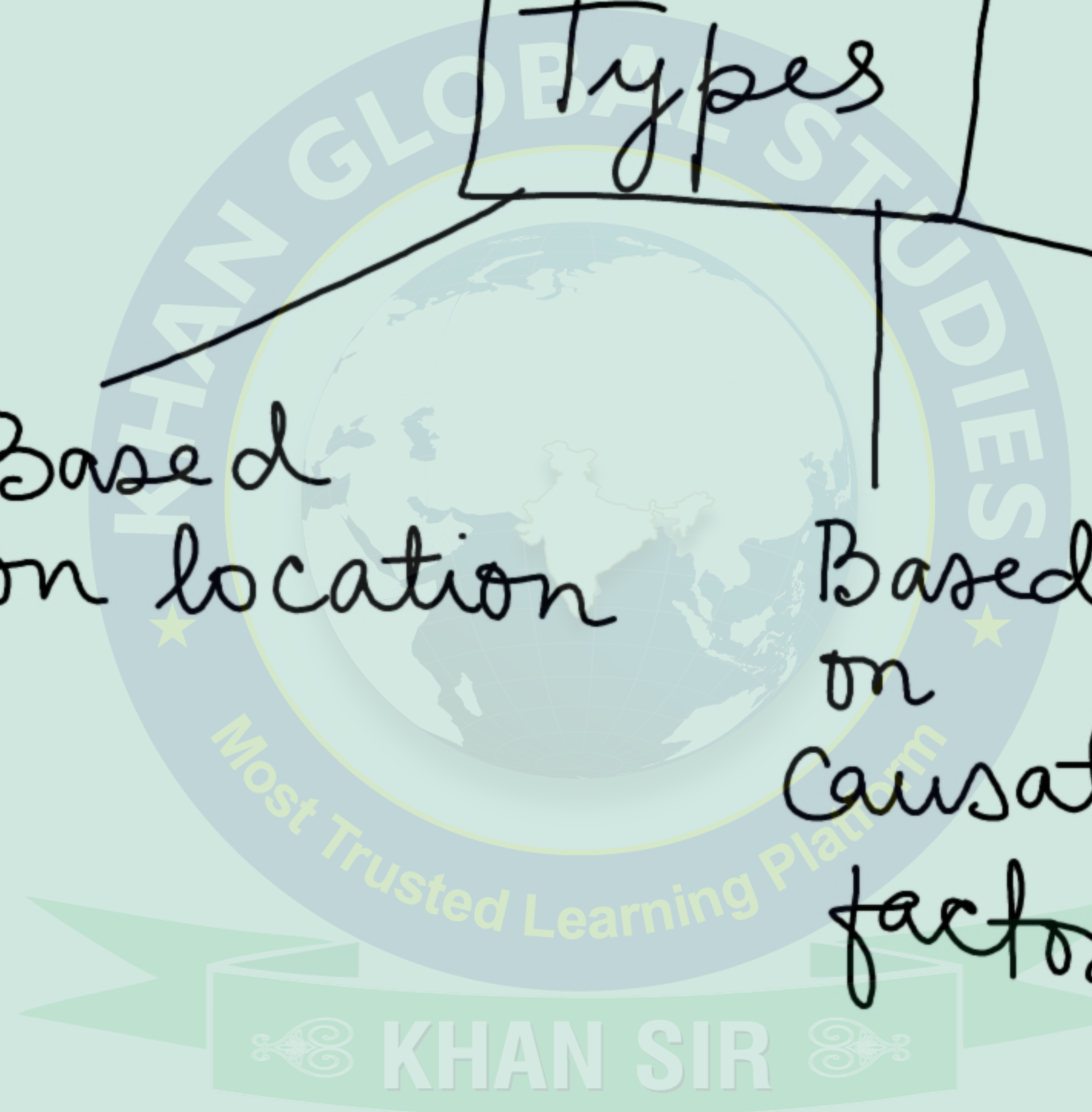
(most stable)
→ least changing

Types

Based on location

Based on Causative factors

Based on linearity



Based on Location

Primary

⇒ no prior biotic
Community

Secondary

⇒ there was a
prior Community
which is destroyed
→ then, succession.

Removal of nutrients
Addition of dead & waste matter
change in chemical parameters

Based on causative factors

Intrinsic
caused by internal factors only

Extrinsic
caused mainly by external factors

Anthropogenic
Human caused.

Human induced

① Forest clearing

② Setting up an artificial community

③ Harvest of cropland

④ Introduction of exotic & invasive species.
etc.

- ✓ flood
- ✓ fire
- ✓ any other major geographical change

mostly causes Secondary Succession

Sometimes Cause, primary Succession also

eg. Earthquake
↓
Emergence of a new island
↓
Primary Succession.



Water hyacinth

Exotic

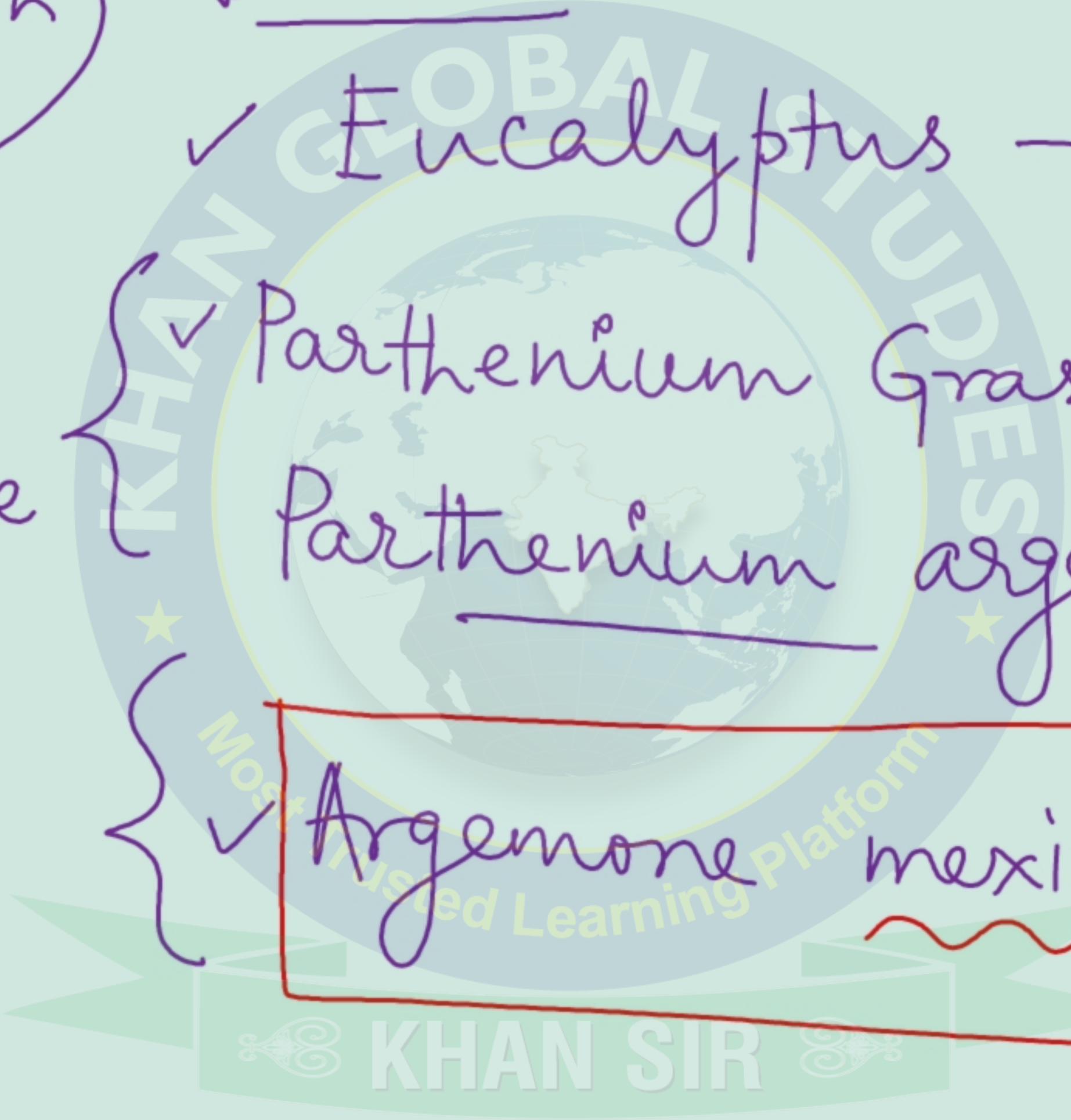
✓ Eucalyptus — Australia

Invasive

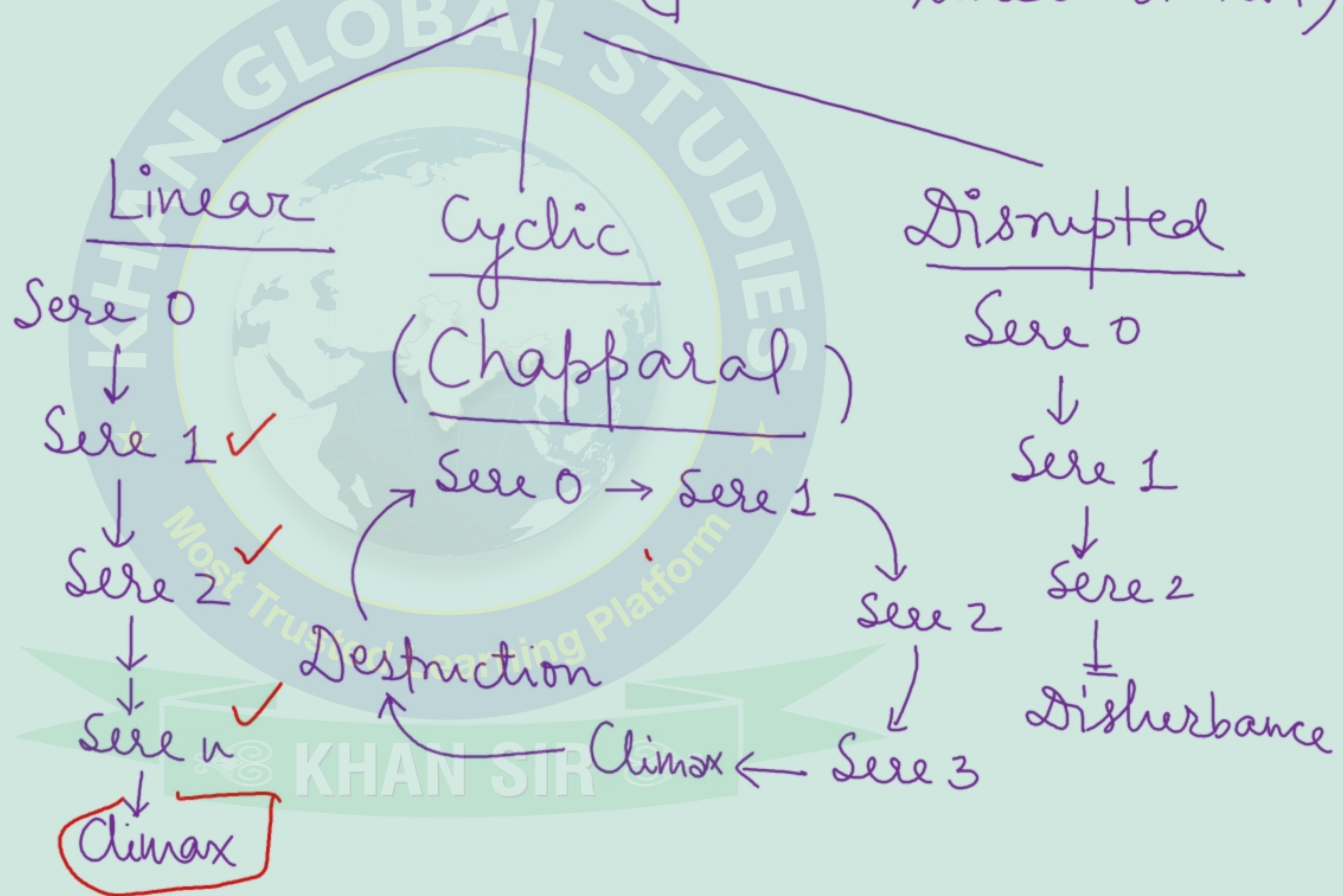
✓ Parthenium Grass } South America
Parthenium argentatum }

Lantana

✓ Argemone mexicana — South America



Based on linearity
(process: linear or not)



Desert - Lichen (Mutualism of Algae & Fungi)
✓ Rock - Lichen
✓ Water - Algae

Process of Succession

Start

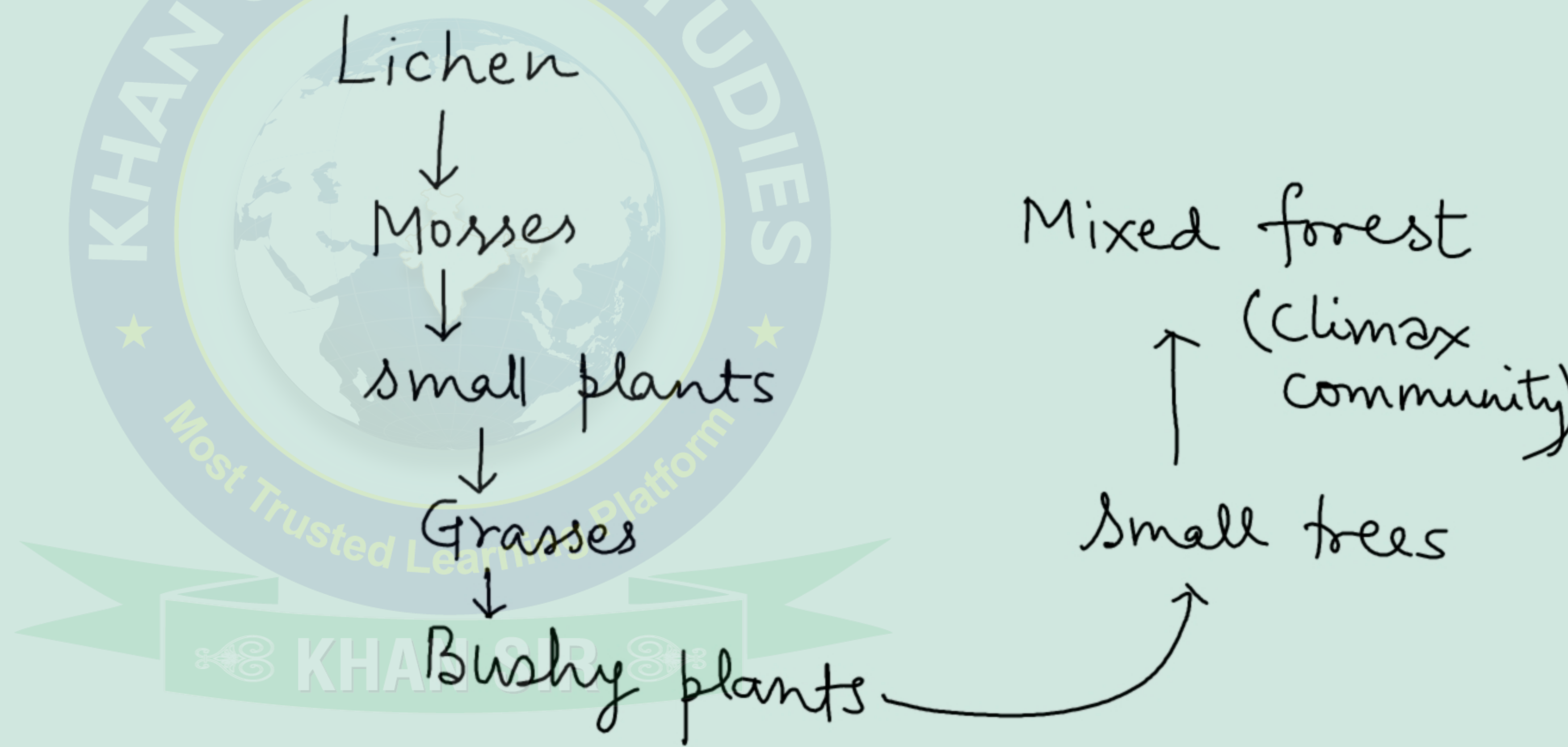
Pioneer Community (= Sere 0) → Sere 1 → Sere 2 → → → Sere 'n'

(first community at a location)

→ a community stage of succession

FINISH
Climax Community

Rock (Lithoserai Succession)





Pond

Pioneer:

Algae

floating

submerged

↓
Small floating plants

↓
Rooted submerged plants

↓
Emergent plants



→ Swamp plants → Grasses

Climax

Mixed forest

↑
Short trees

↑
Mixed grasses & bushes

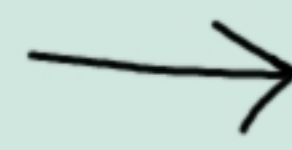
NCERT Biology



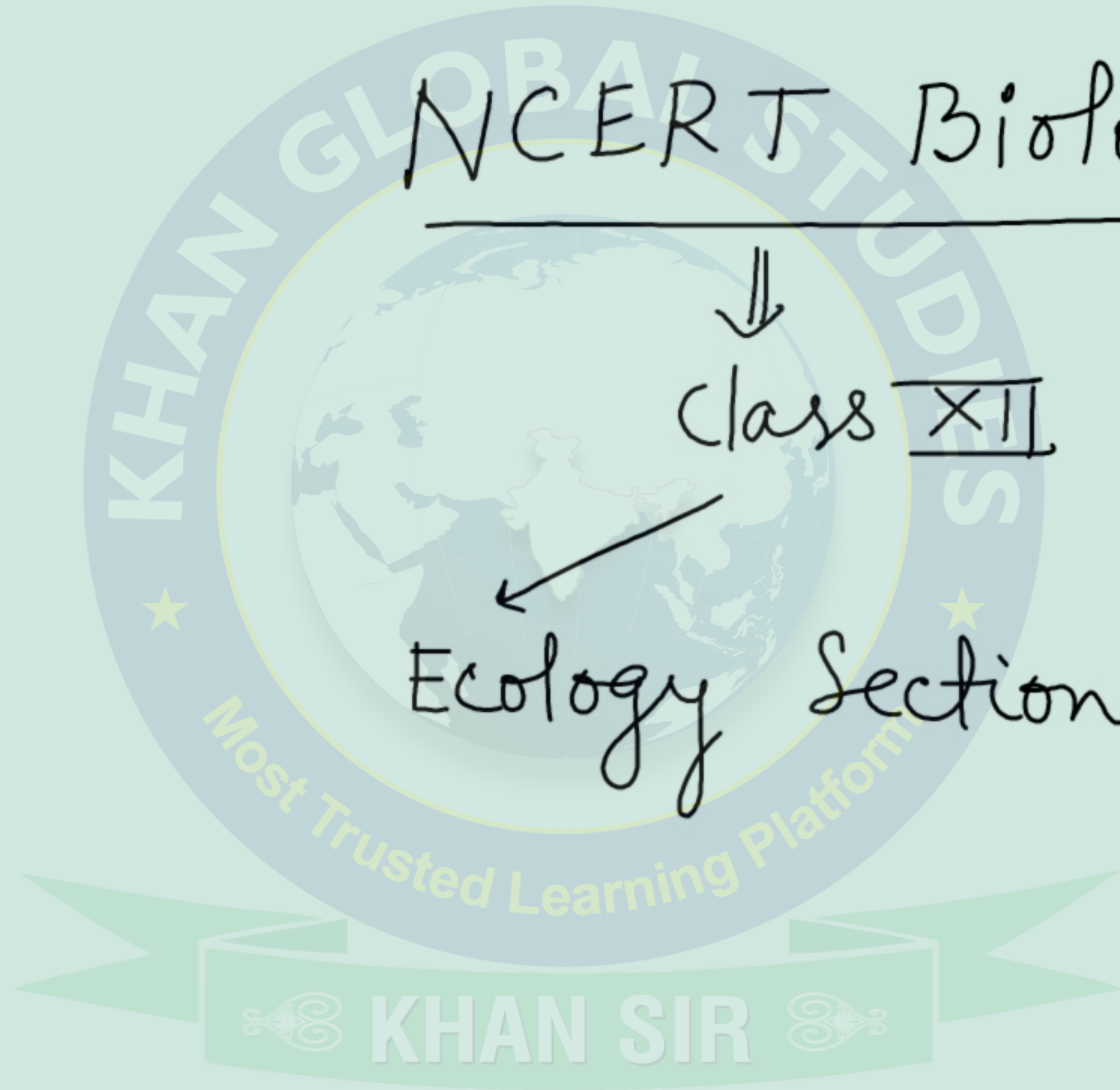
Class XII



Ecology Section



First 2
chapter



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