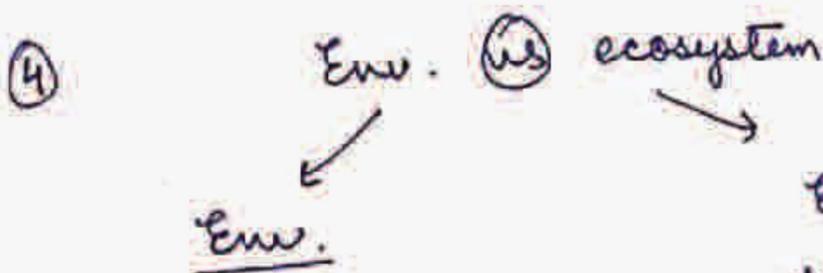
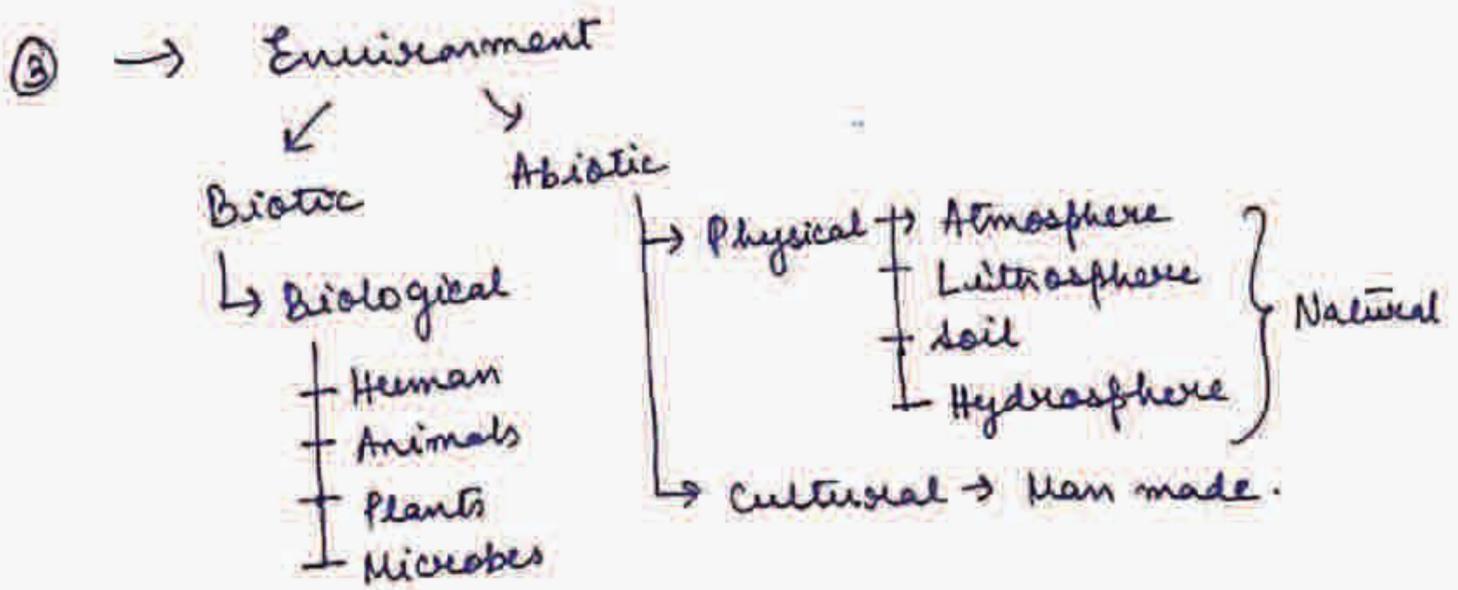
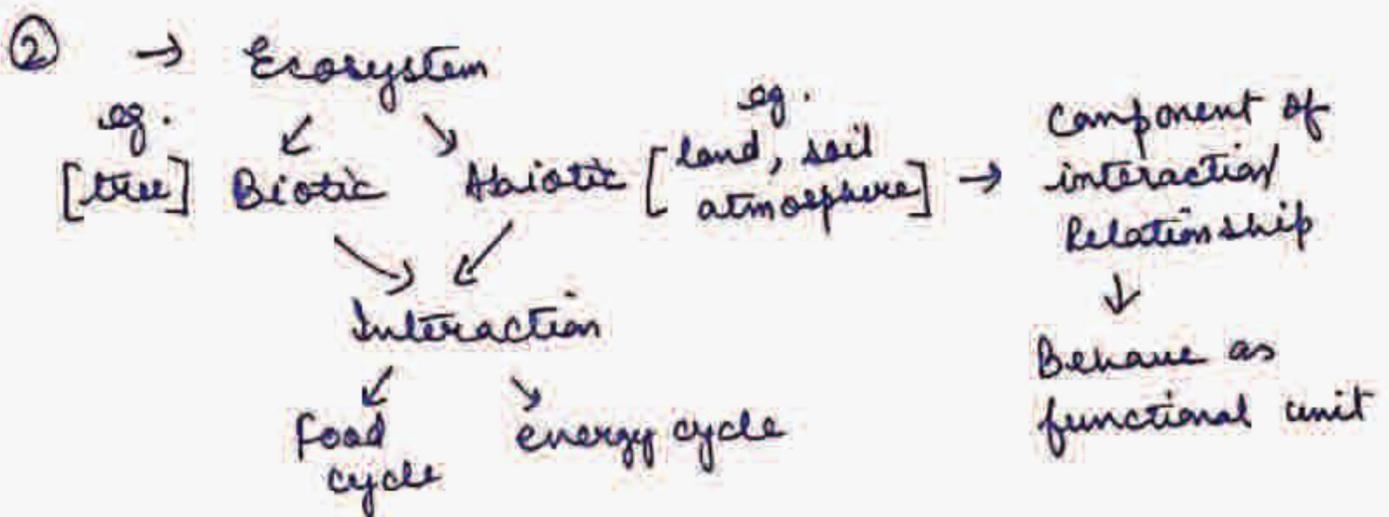
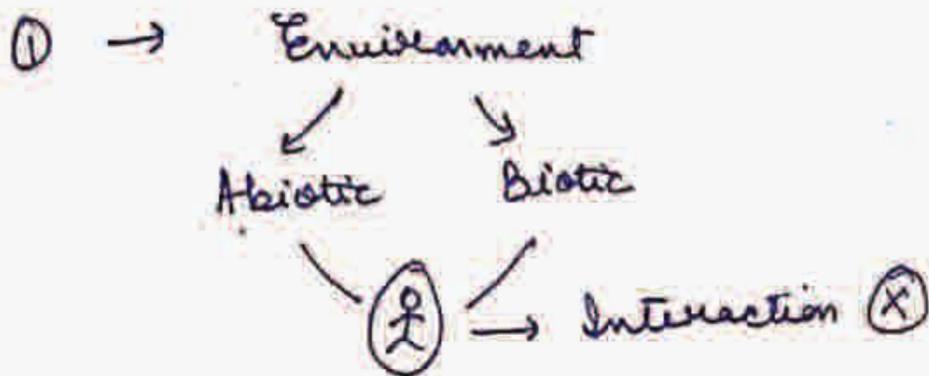


### Environment - Ch 1

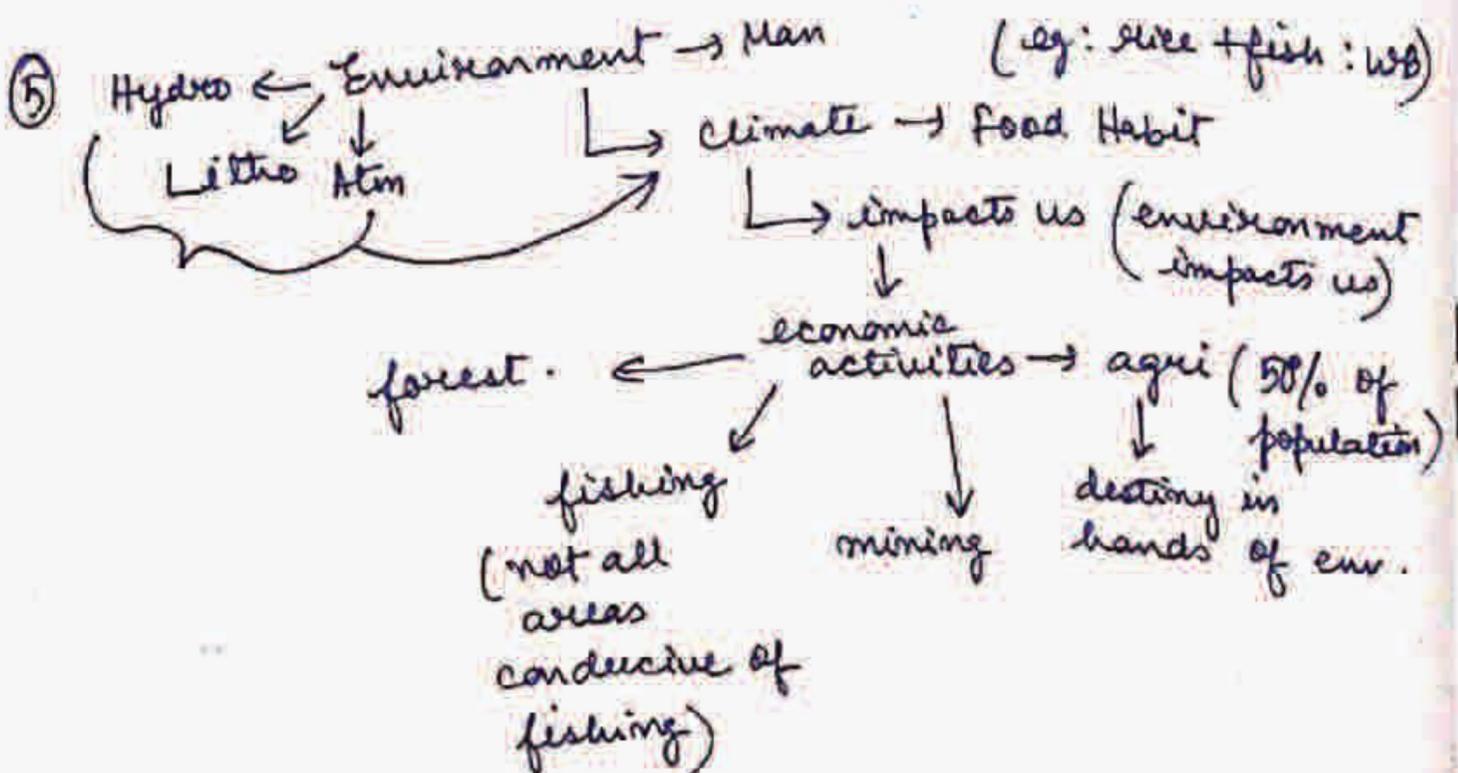
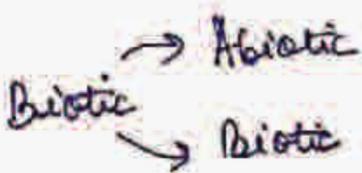
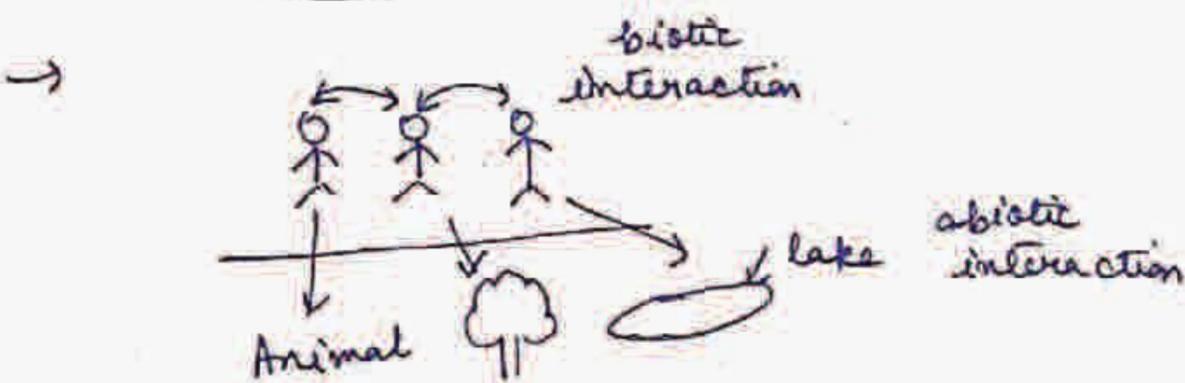
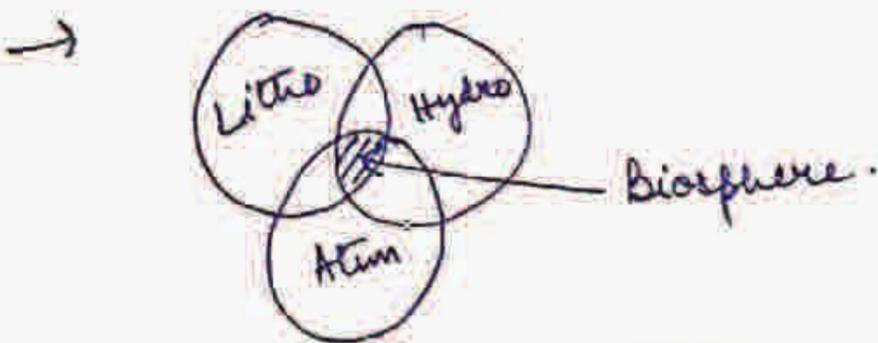
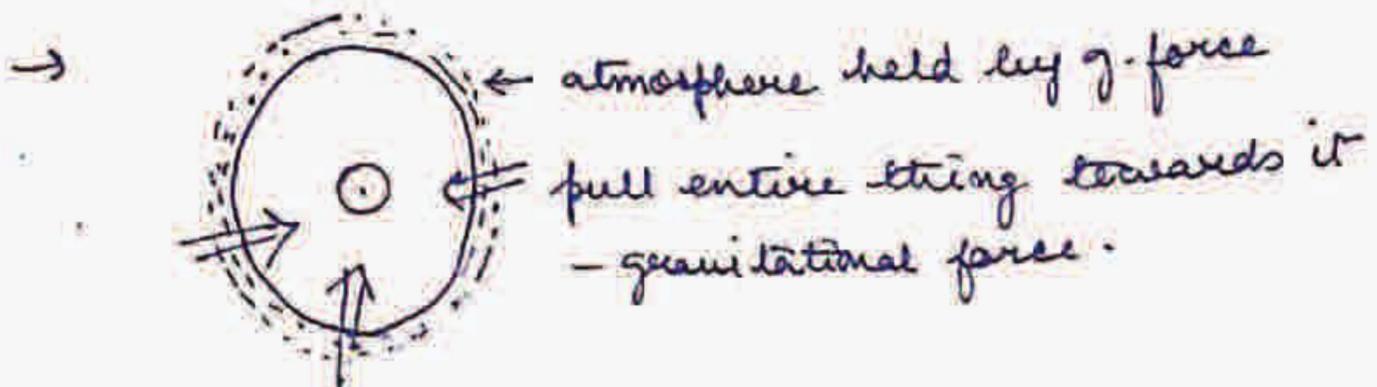
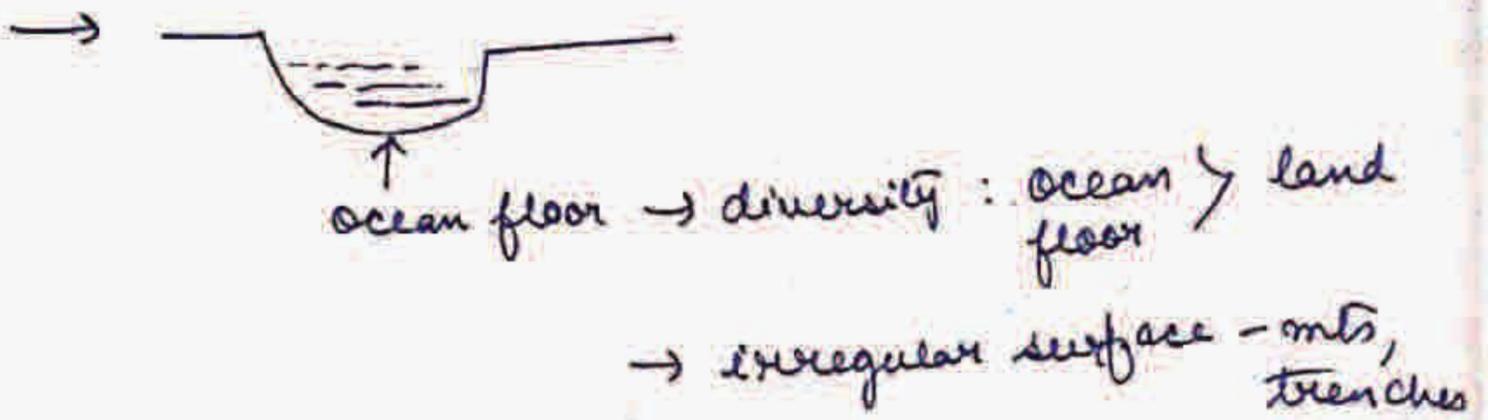


(i) Anything that surrounds us.

(i) Refers to communities that function as a whole/unit.

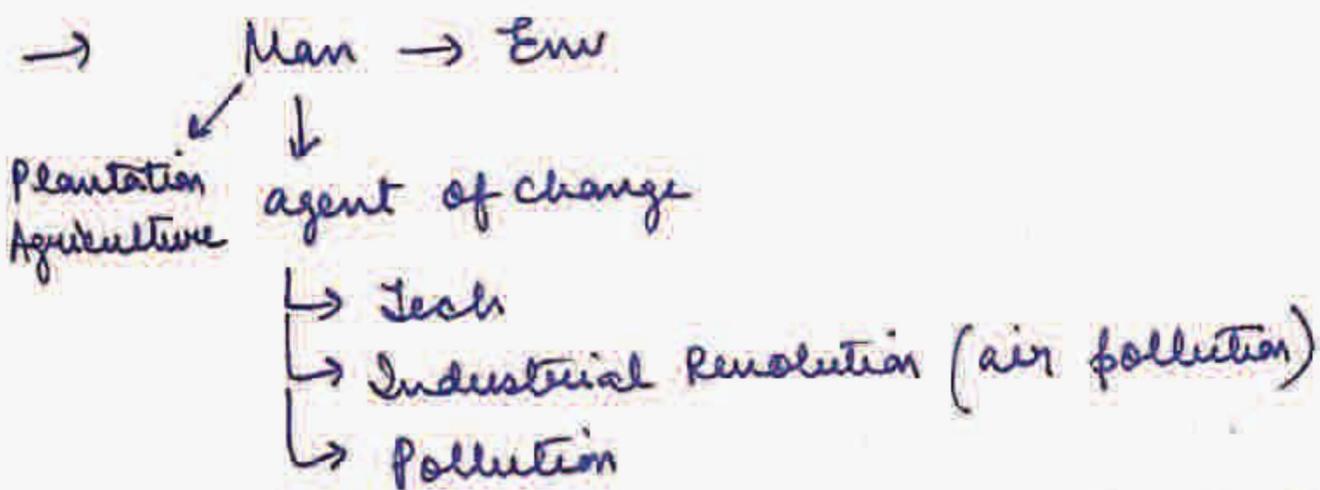
(ii) The term does not include the relationship b/w living things and their surroundings.

(ii) Includes ecological relationships b/w all the organisms and their env. (interaction)



① Env. limits man's choice, decision making power  
eg. Rice can't be grown at desert.

② Climate is important determinant of env.

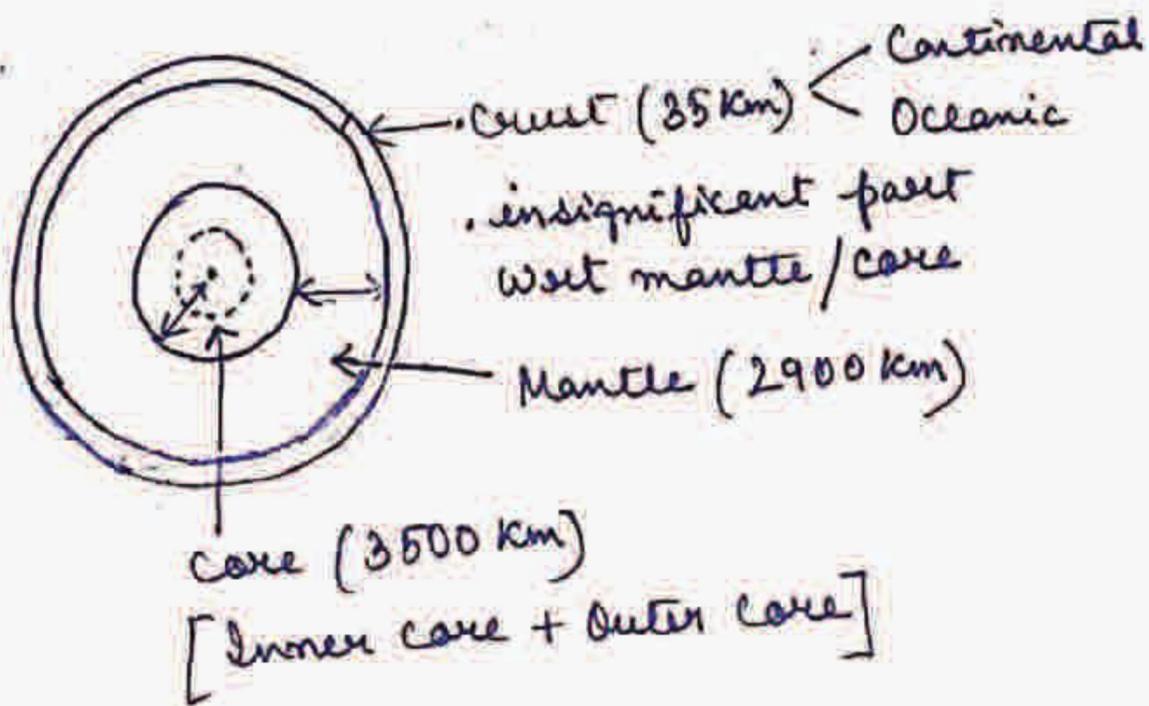


Previously nature was the limiting factor.

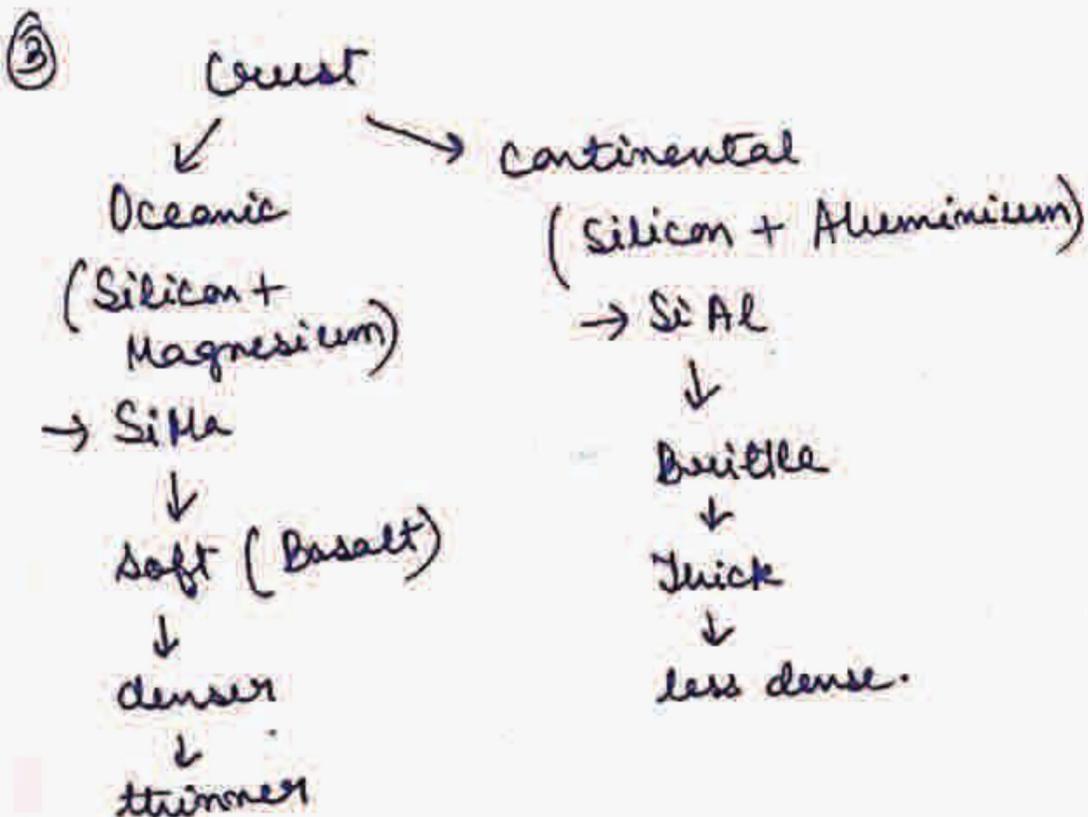
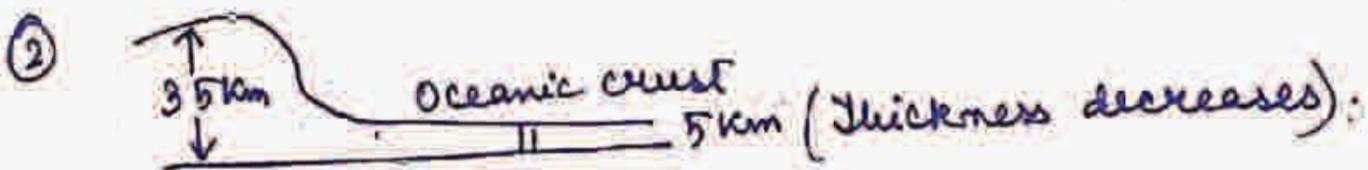
### Inside our Earth - Ch-2

#### ① Earth

- ↳ not monolithic.
- ↳ layered / stratification

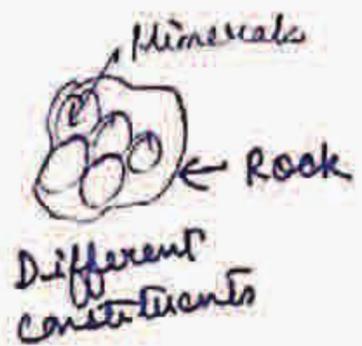


#### Interior of earth



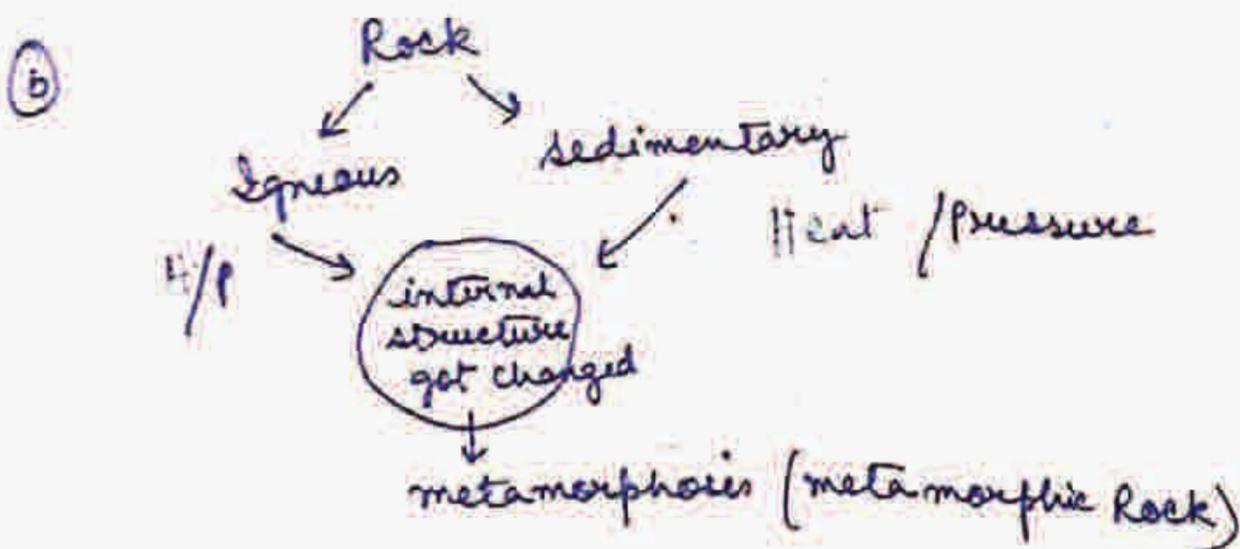
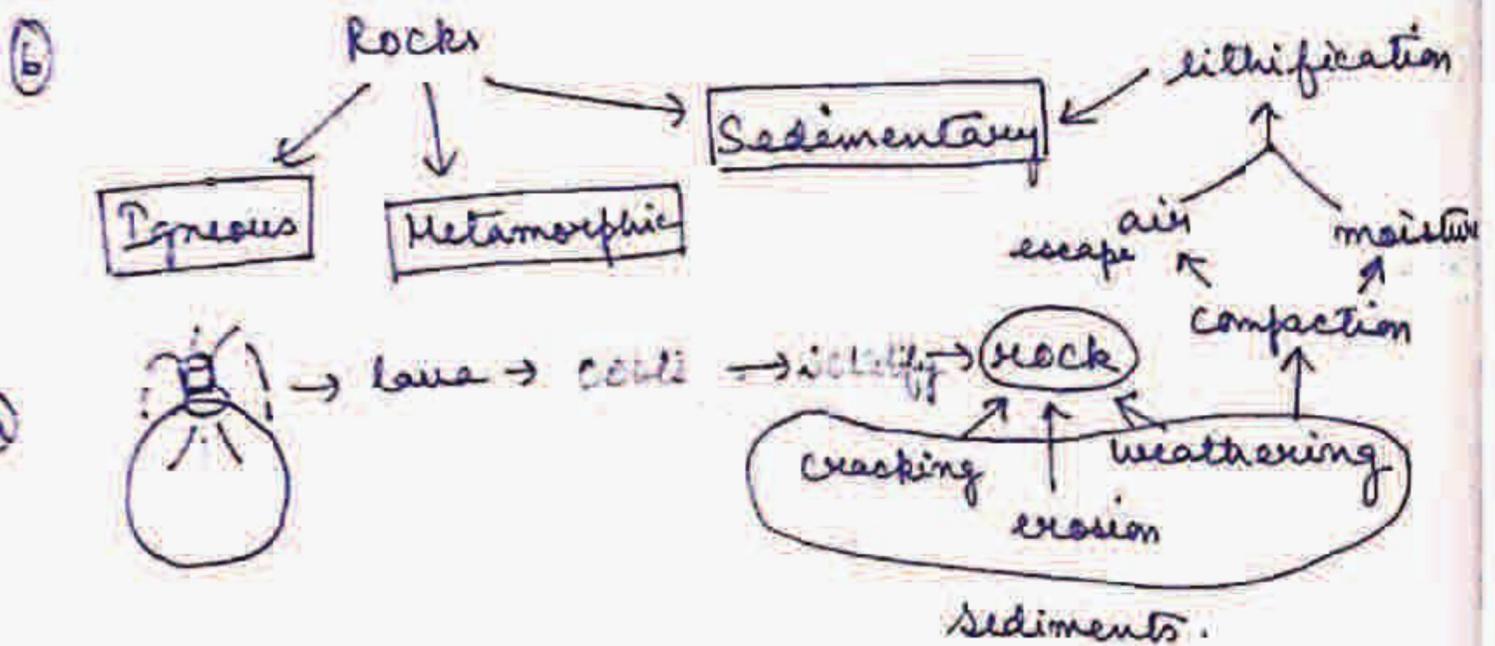
④ Minerals

- ① They are compounds
- ② They have definite composition
- ③ Building blocks of rocks.  
eg. quartz, amphibole, Pyroxyn



⑤ Rocks <sup>not chemical</sup>

- ① mechanical aggregate of minerals
- ② They are mixtures (not compounds)
- ③ They have no definite physical / chemical properties.



→ ① Igneous → sedimentary  
↓  
metamorphic.

② metamorphic → sedimentary

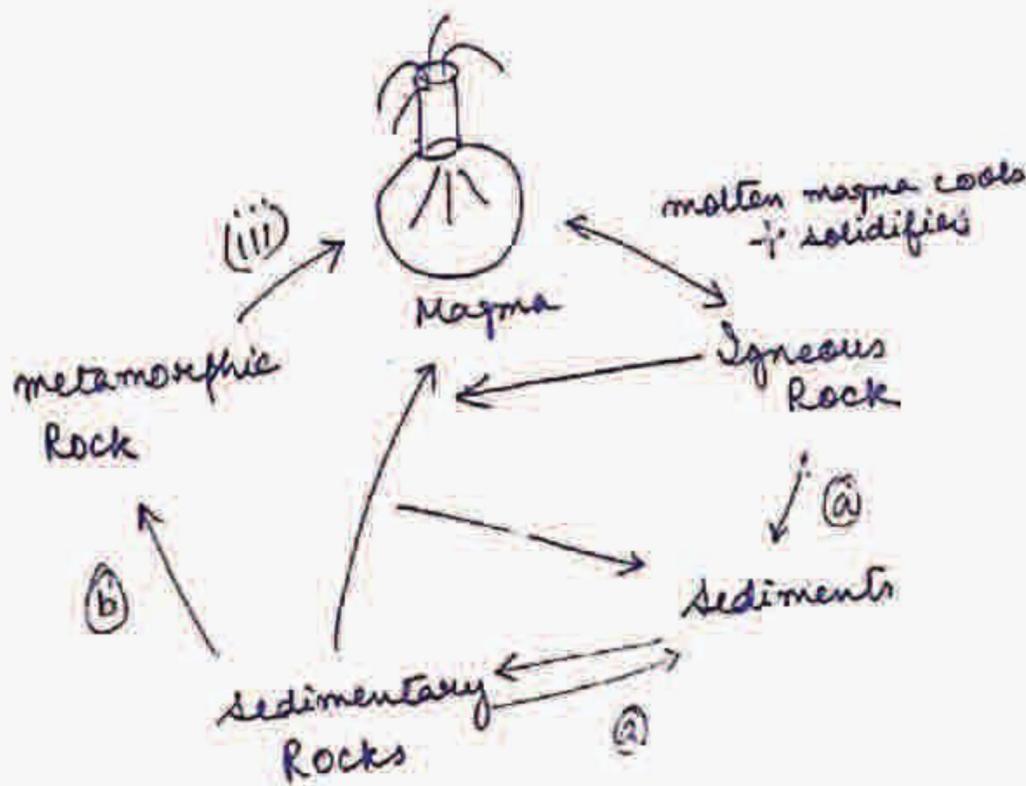


(iii) Metamorphic + sedimentary → under ground

↓  
Igneous Rock ← Volcanic eruption ← molten lava

eg - limestone (sedimentary) → marble (metamorphic)

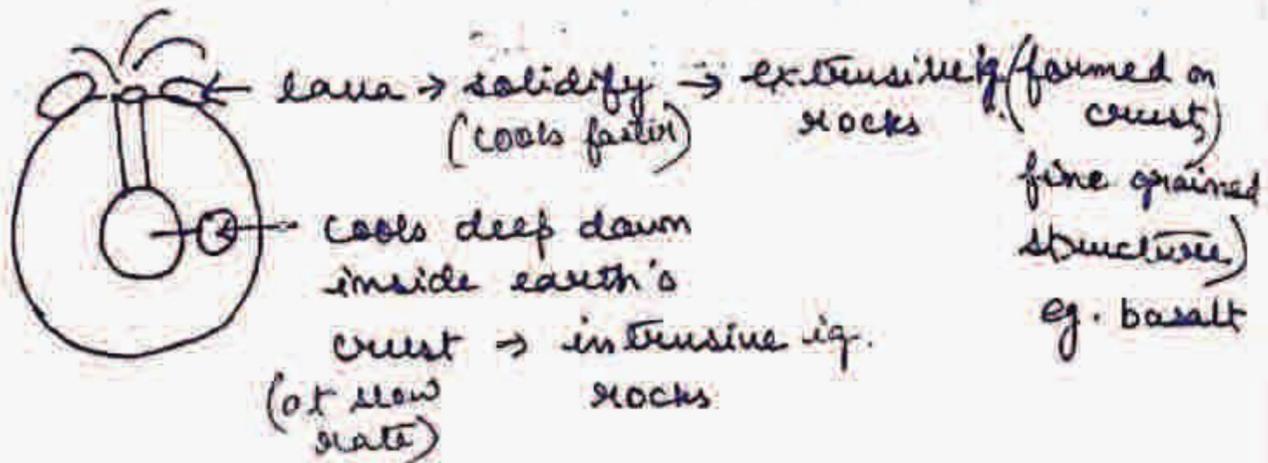
**Rock cycle:** The process of changing of one type of rock to another type under certain conditions in a cyclic manner is called rock cycle.



Rock cycle

## ⑦ Igneous Rocks:

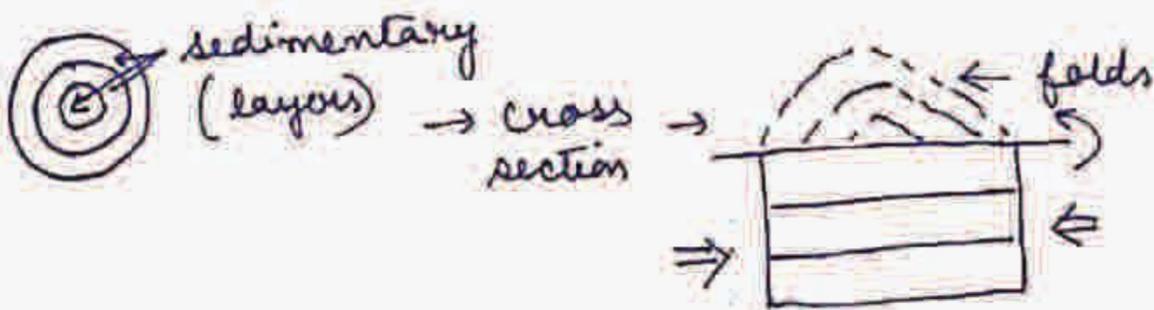
- They are formed from solidification of molten magma or molten lava.
- Therefore they are azeic (without life) and unfossiliferous (no trace of life)
- No layering (unstratified)
- 2 types: intrusive igneous rocks  
extrusive igneous rocks



### ⑧ Sedimentary Rocks

- (i) They are formed by accumulation and deposition of weathered sediments - it can be from any rocks. Such accumulation undergoes compaction and lithification to form sedimentary rocks.
- (ii) Sedimentary rocks may be fossiliferous (trace of life)
- (iii) They have layers/stratification.
- (iv) Always softer, can be eroded and deformed.

→ fold mts → generally have sedimentary rocks as basic constituents.

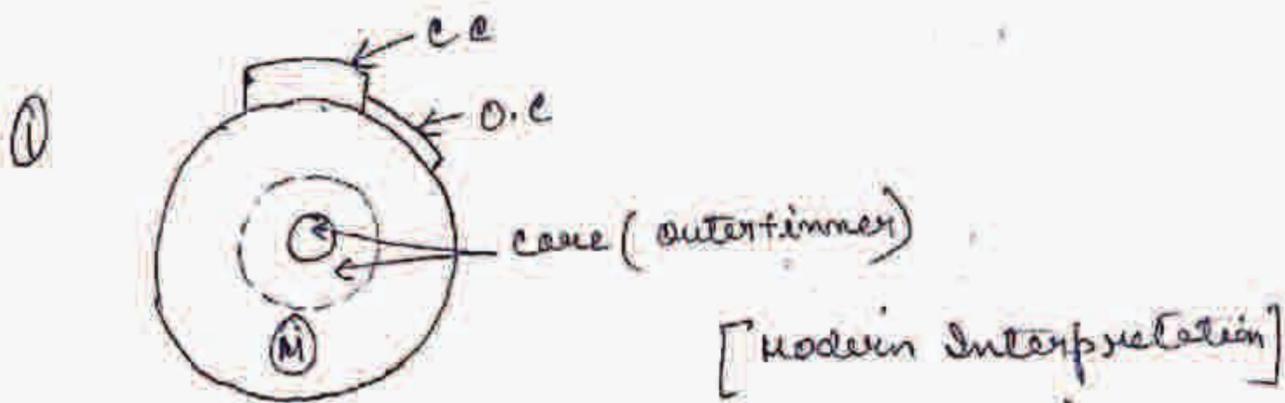


### ⑨ Metamorphic Rocks

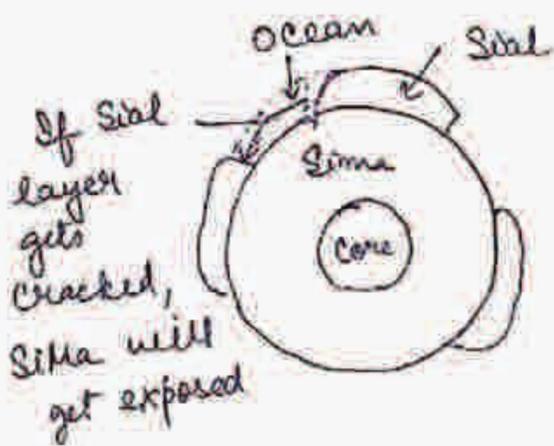
- (i) Formed due to metamorphosis of previous igneous, sedimentary or metamorphic rocks

eg: Limestone  $\xrightarrow{\text{Heat/P}}$  marble  
 granite  $\xrightarrow{\text{H/P}}$  gneiss rock  
 shale  $\xrightarrow{\text{H/P}}$  schist/slate

Interior of Earth



② → Edward Suess:



① Sial layer: forms the part of continental crust  
500-300 km

↓

② Sima layer: thickness 1000 km  
Ocean floors are exposed to Sima layer

↓

③ Core: Nickel + Iron

- densest layer
- Radius of core 3000 km (approx)

④ Earth layer - Outer layer over Sial

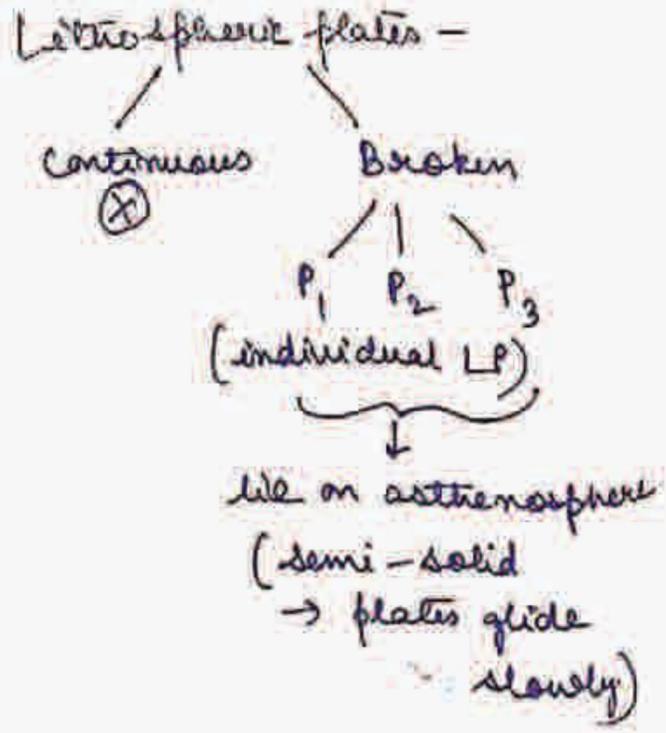
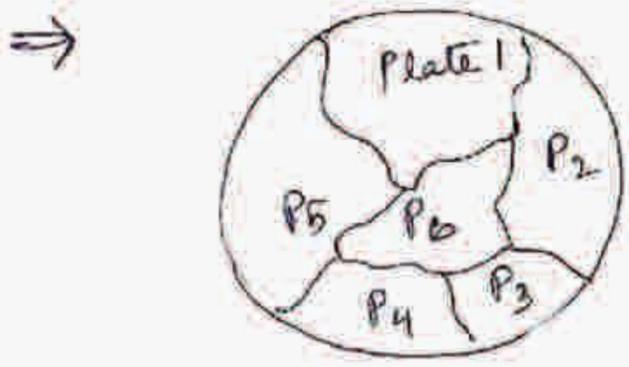
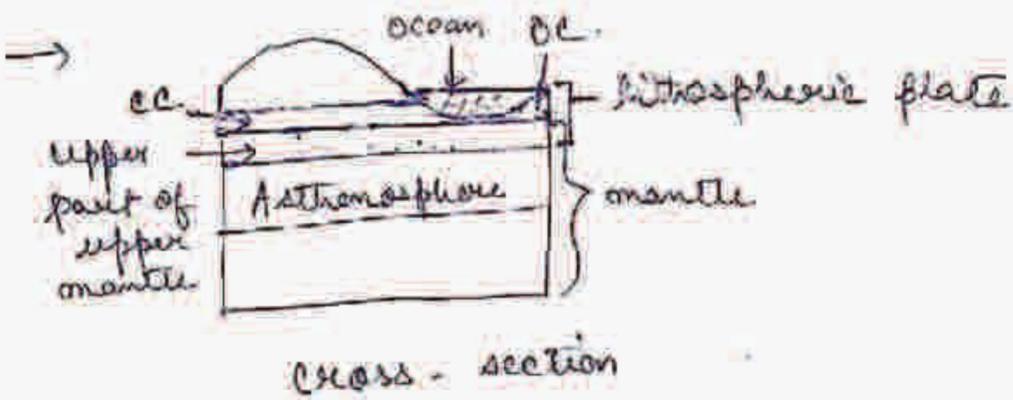
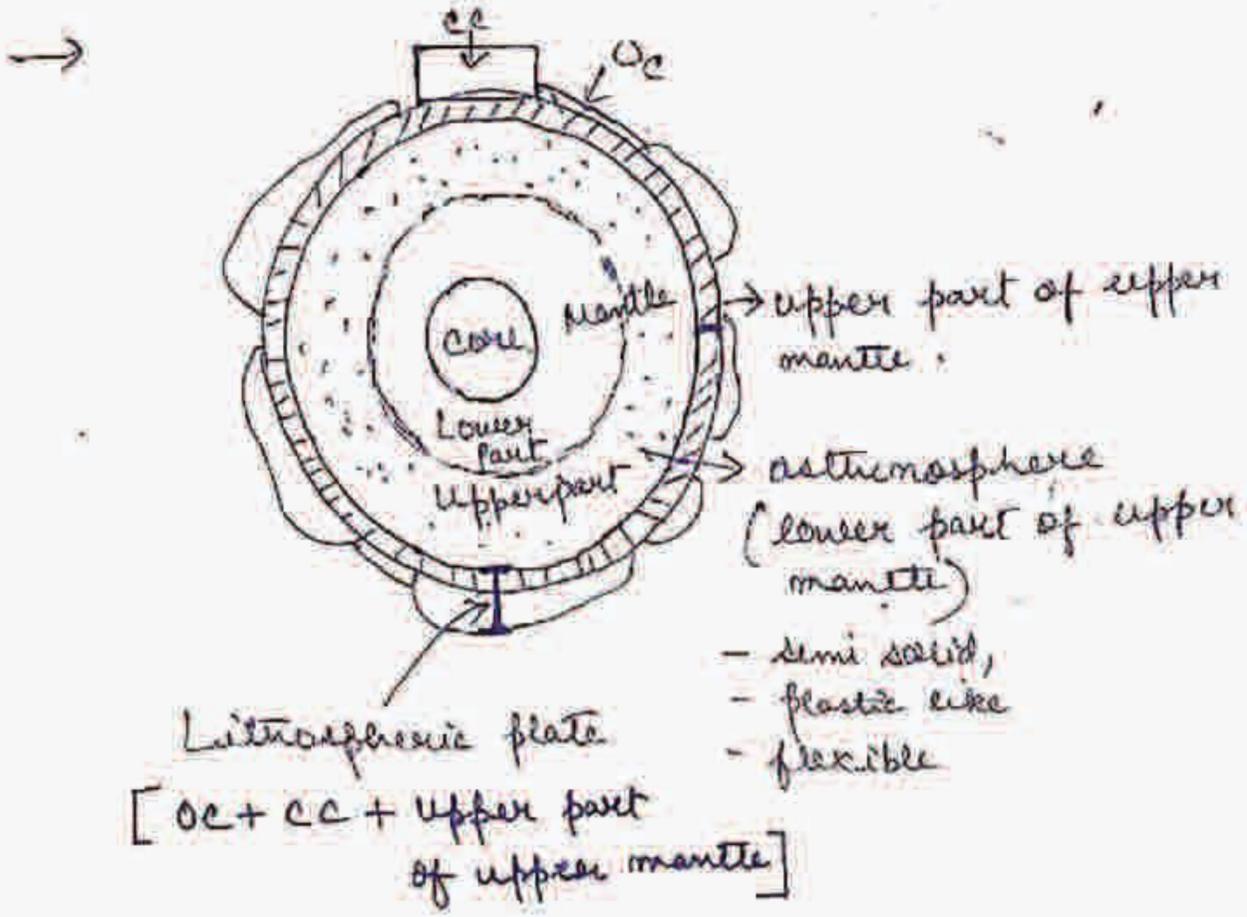
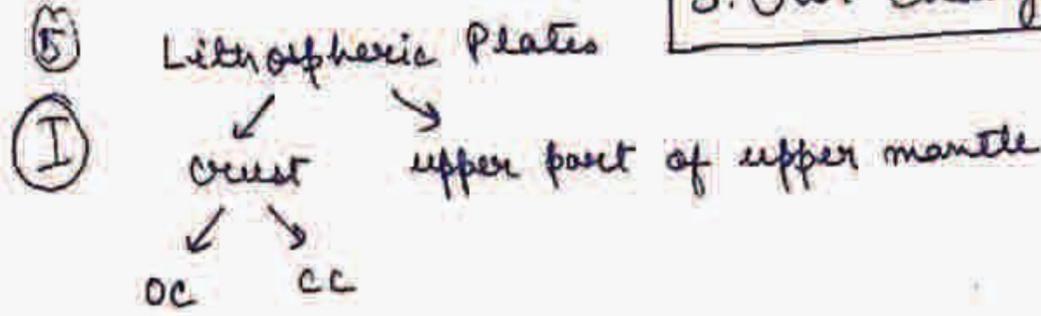
- thin layer consists of rock debris, sediments, fragments of rocks etc.

③ Crust

cc (Sial)      Oc (Sima)

④ Vulcanism → cooling quick (fine particles)  
→ cooling slow (large particles)

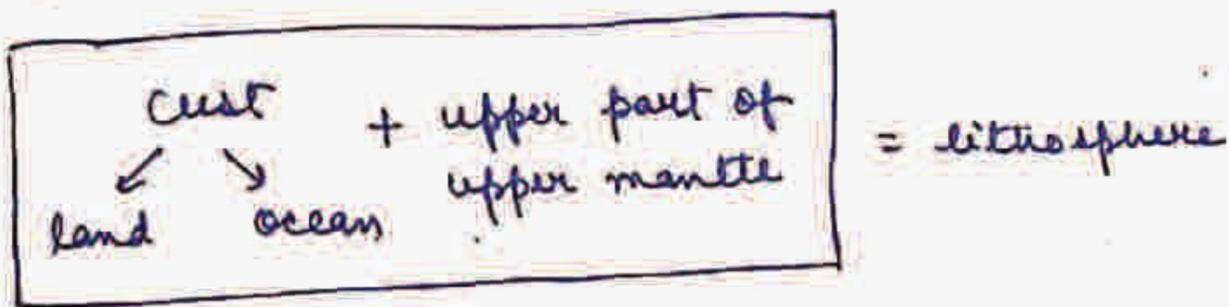
3: Our Changing Earth



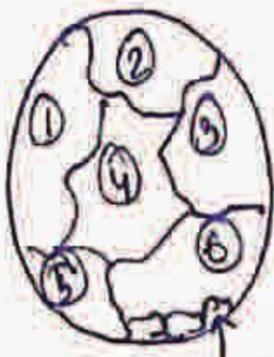
✗ Entire earth will not have 1 LP, rather these LP → no of plates.



⇒ Lithospheric scheme.

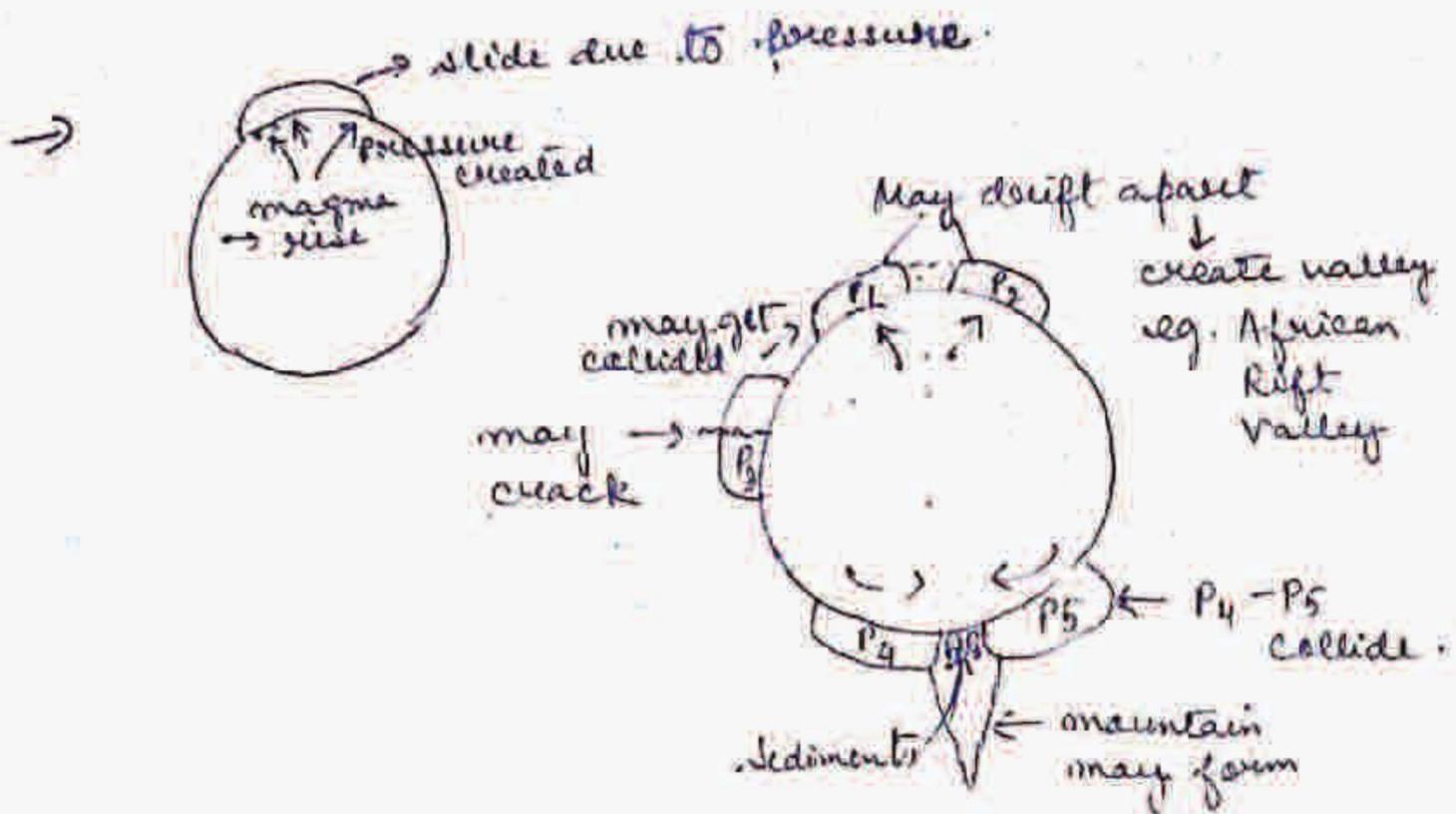


This lithosphere is not continuous, it is broken like 'cracked eggs'. Each segment is called LP. We have around 6 major plates and about 6-10 minor plates and numerous micro plates.

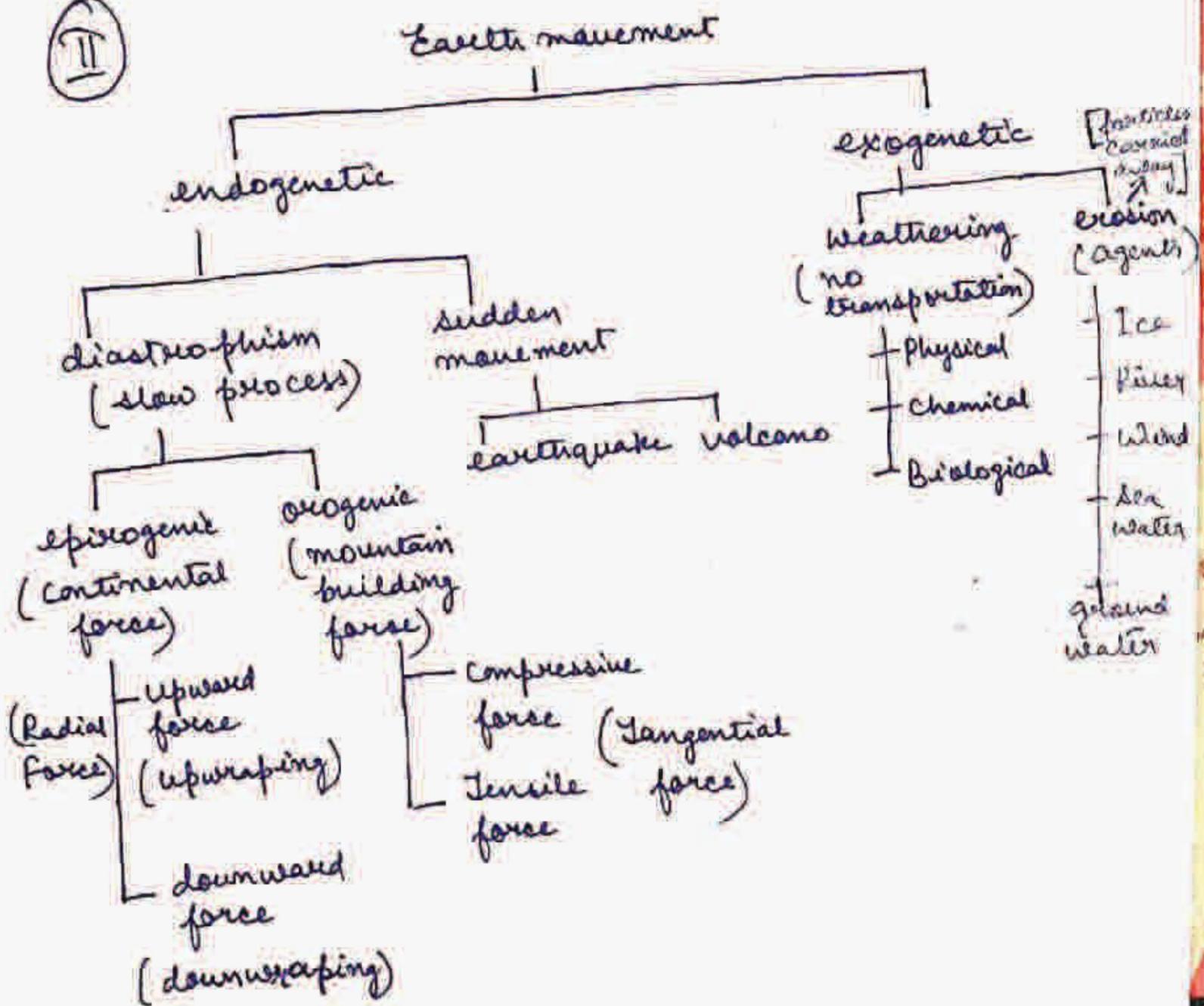


micro plates. (eg. Mediterranean sea)

The lower part of upper mantle is asthenosphere. Asth. because of olivine have semimolten plastic nature. LP can be visualized as floating over asth. and such dynamism is responsible for most of geophysical processes - vulcanism, mountain building, rifting etc.



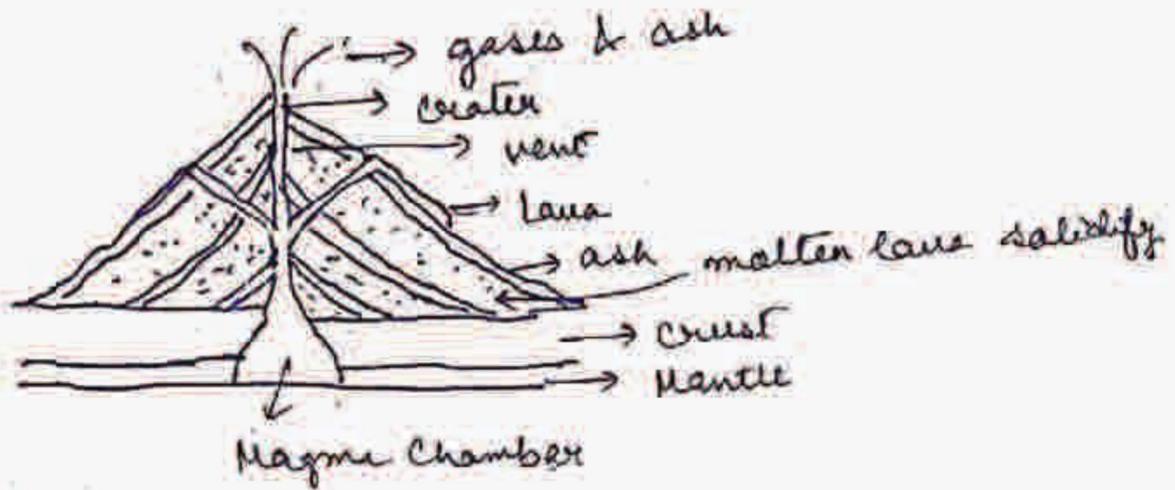
II





## ① Volcano-

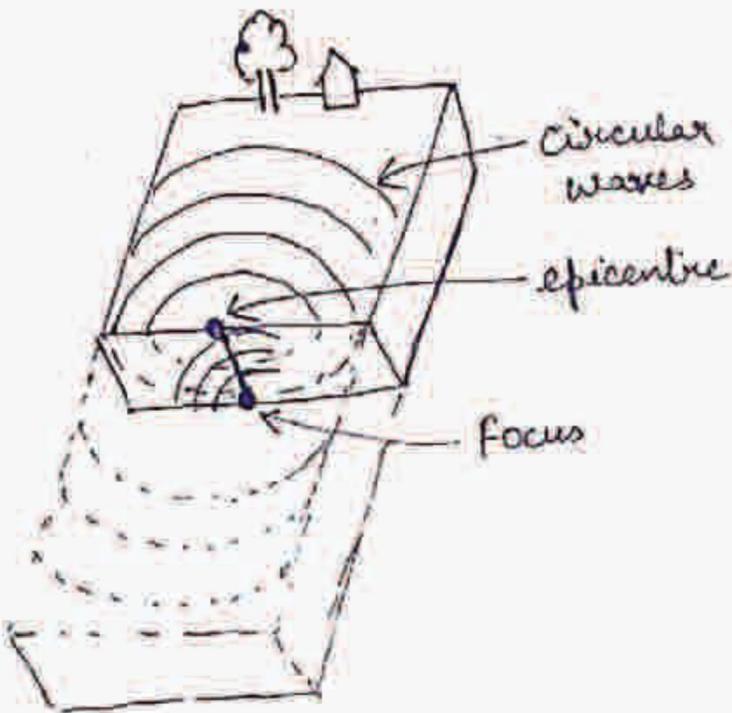
A vent in the earth's crust through which molten materials erupt suddenly.



## ① Earthquake



friction during sliding → vibration → earthquake

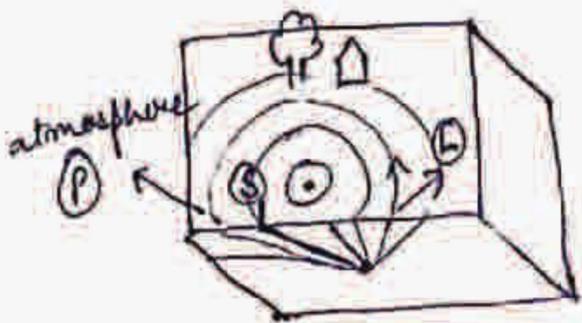


Focus: source region of seismic waves  
→ travels every direction.

Epicentre:

- pt. traced on earth's surface right above focus
- circular waves
- energy of waves go on dissipating with distance from centre
- more close to epicentre  
↓  
more energy  
↓  
more damage.

→ Earthquake waves:  
P, S, L, R waves.



Earthquake waves  
 ↙ ↘  
 Body waves      Surface waves.

⇒ Body waves

↙  
 Primary waves

(Push and pull waves/  
 Longitudinal waves)

- ① → these are fastest wave
- ② → reach earth's surface first
- ③ → can travel through solid, liquid, gas

↘ secondary waves.

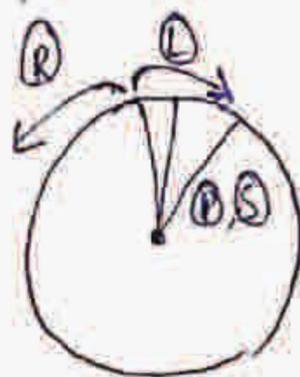
- ① Lesser speed than P waves
- ② Can pass only through solid

⇒ Surface waves

↙  
 L-waves  
 (Love-waves)

↘  
 R-waves  
 Rayleigh waves

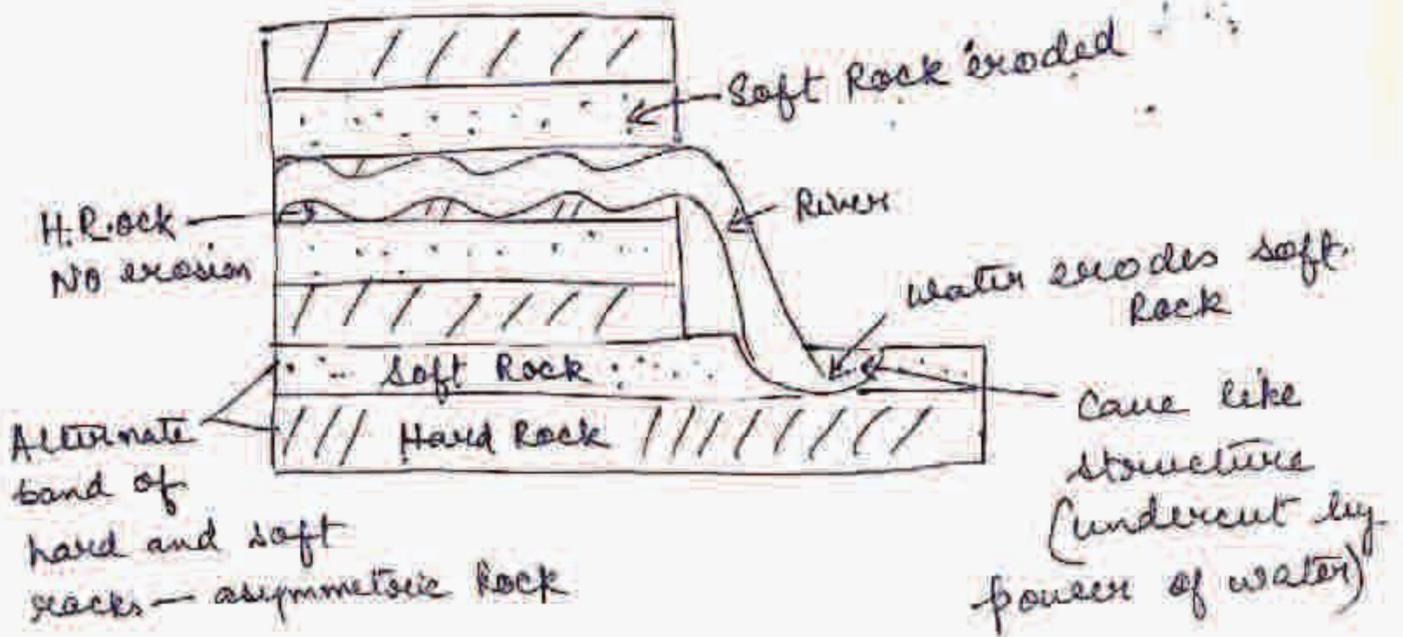
- most destructive
- runs on surface



## Major Landforms

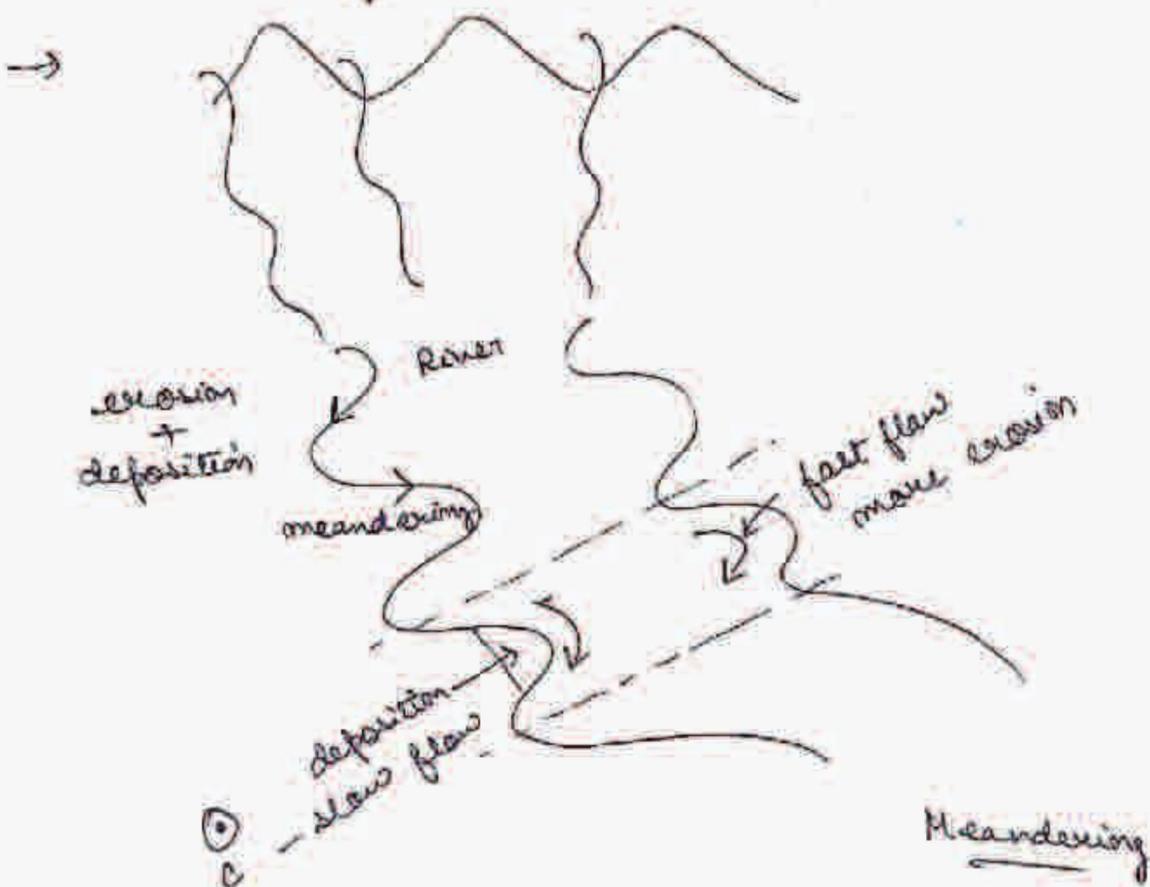
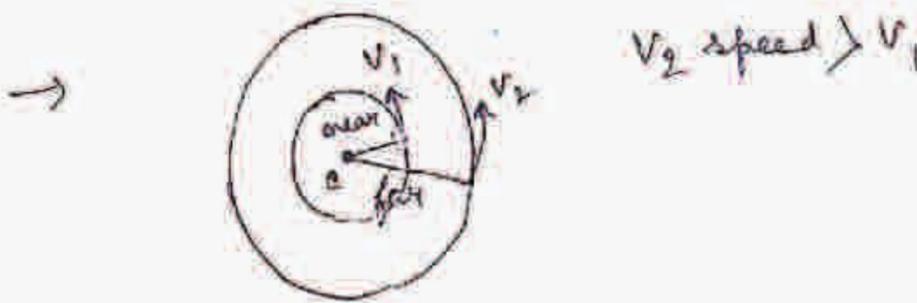
### ① Works of river

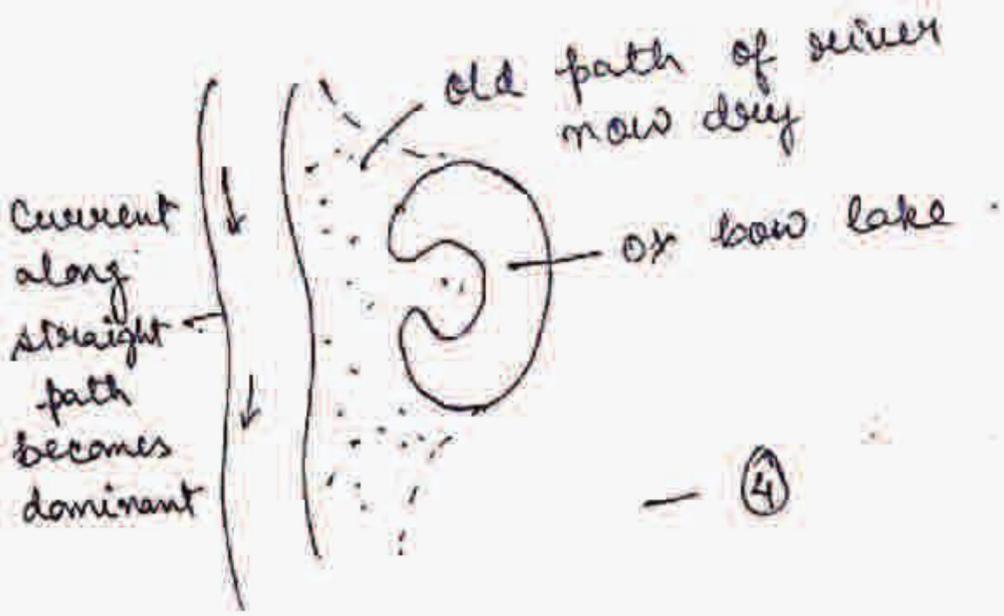
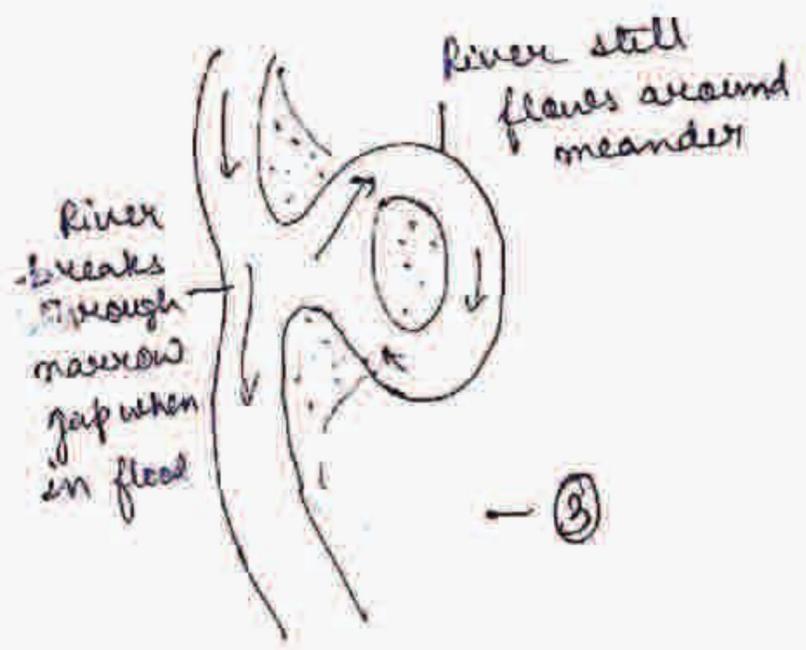
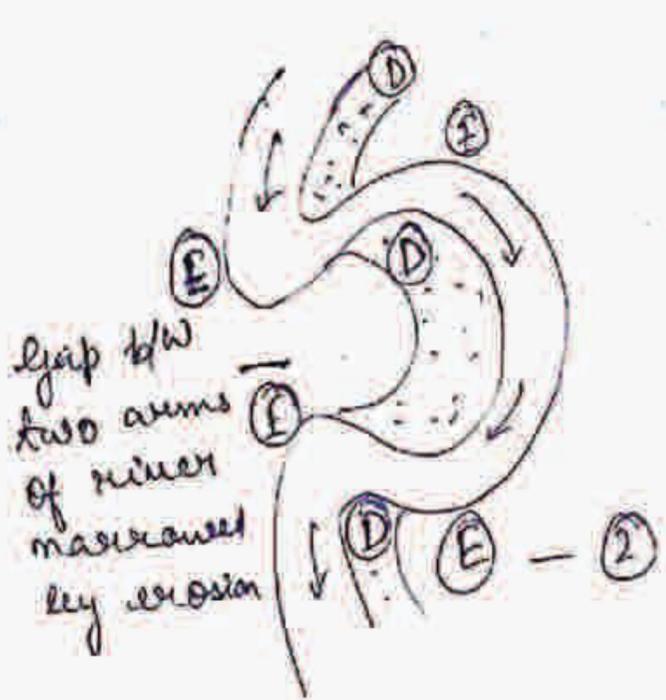
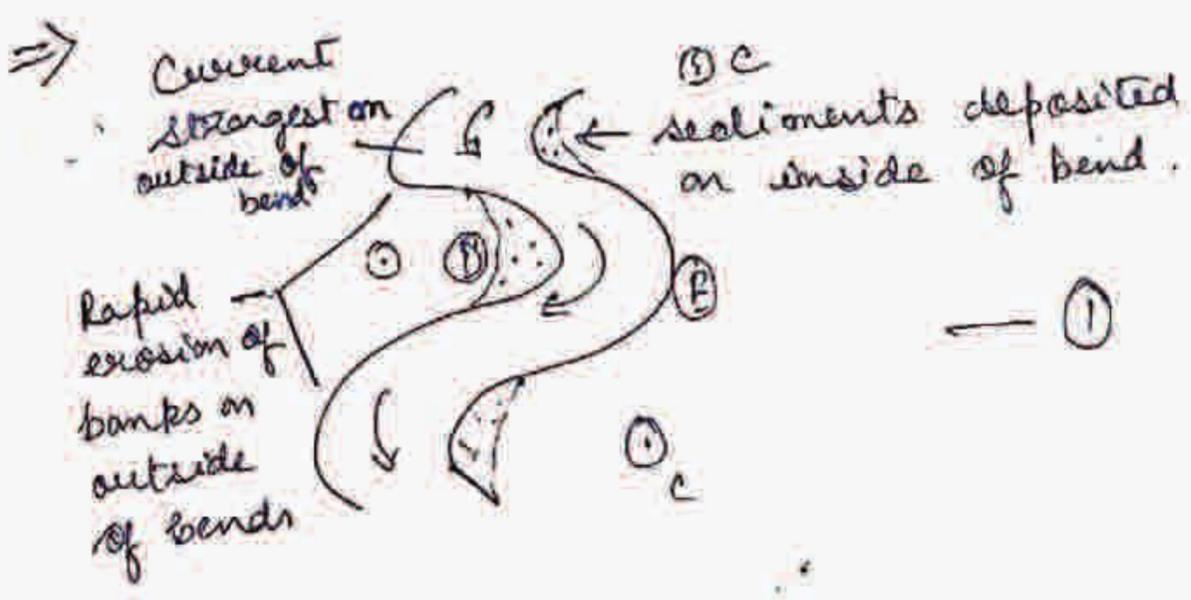
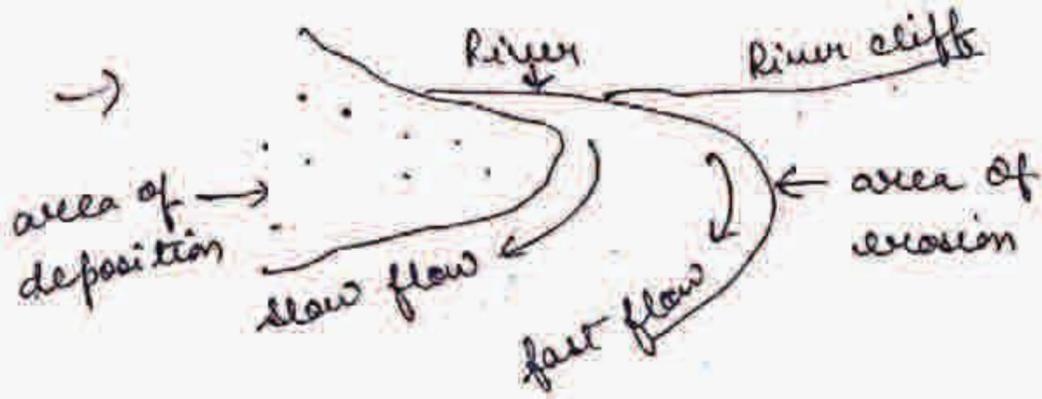
#### (i) Waterfall



→ Highest waterfall - Angel Falls, Venezuela

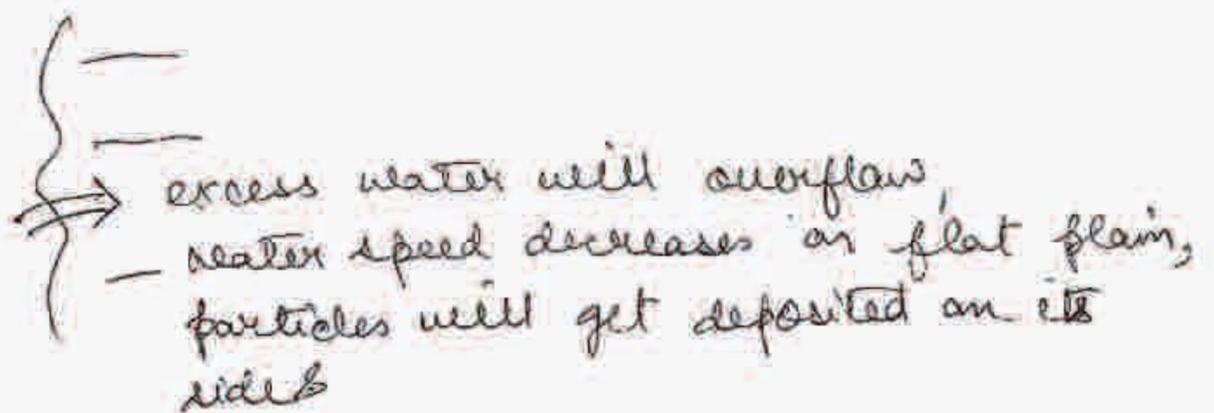
#### (ii) Meanders/Ox-bow lakes



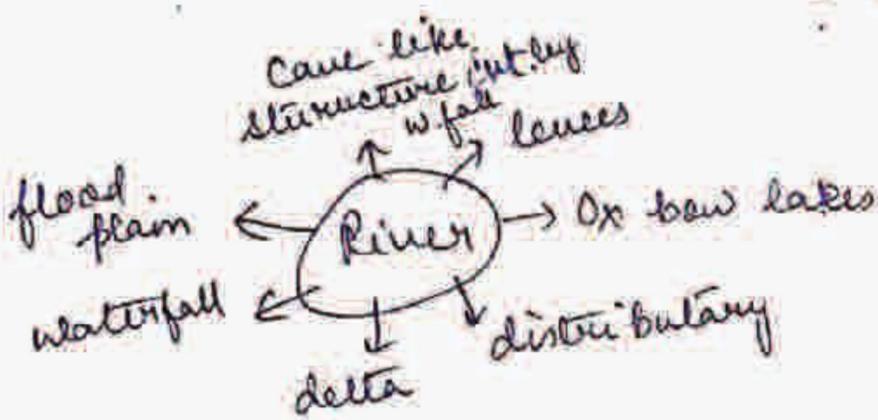
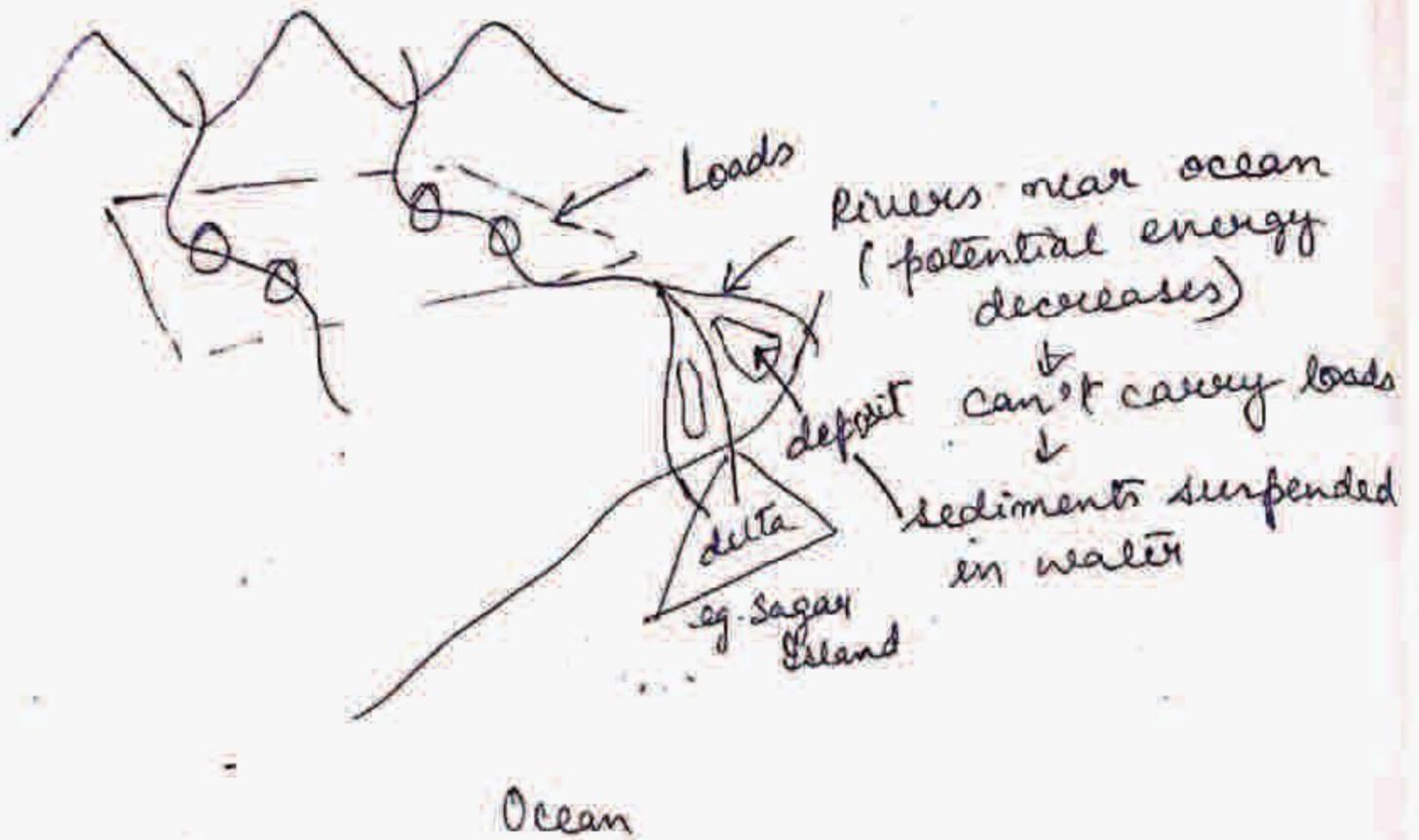


(ii) Flood plain:

- softer
- flood plain (deposition)
- Fertile - huge potential for agriculture.



(v) Distributaries / Deltas

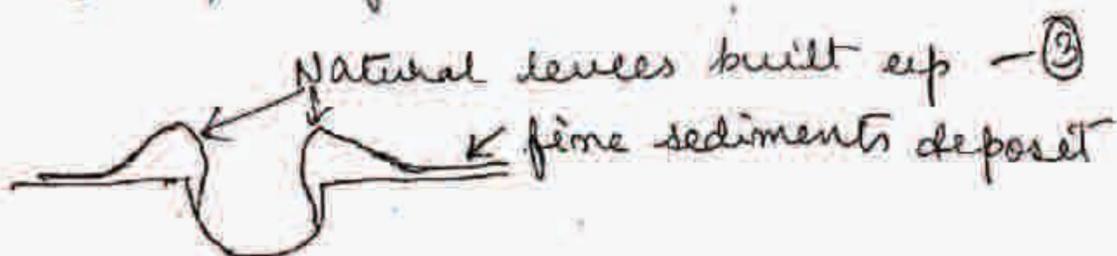
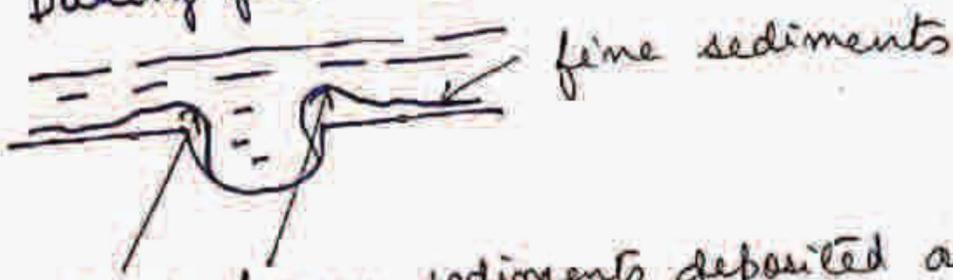


**Levees**

(iv) Before flood - ①

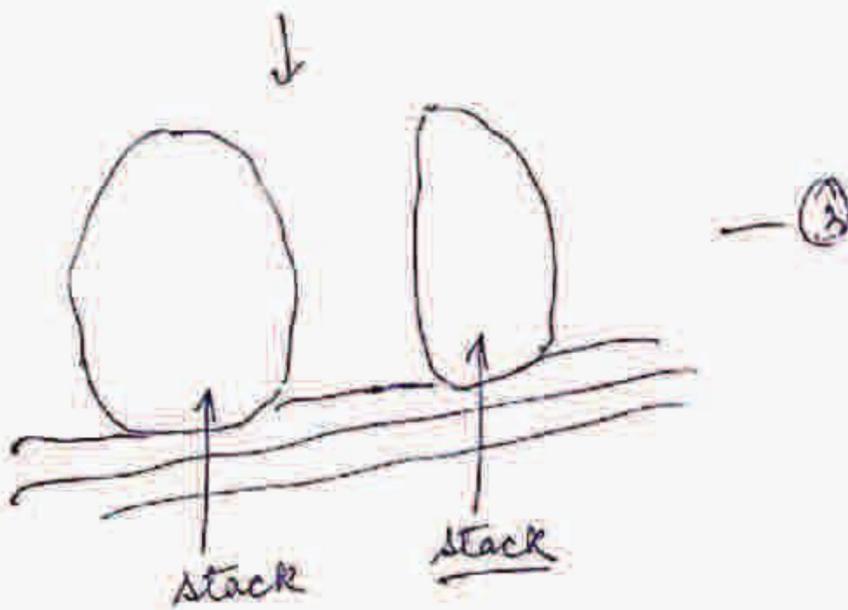
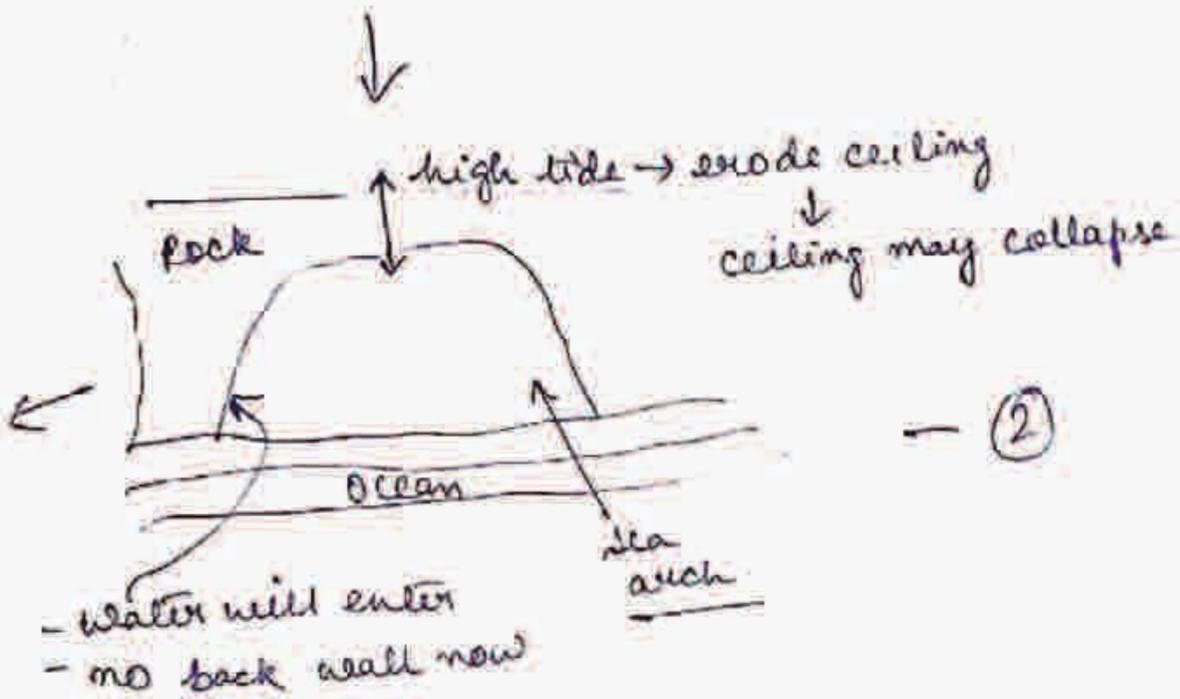
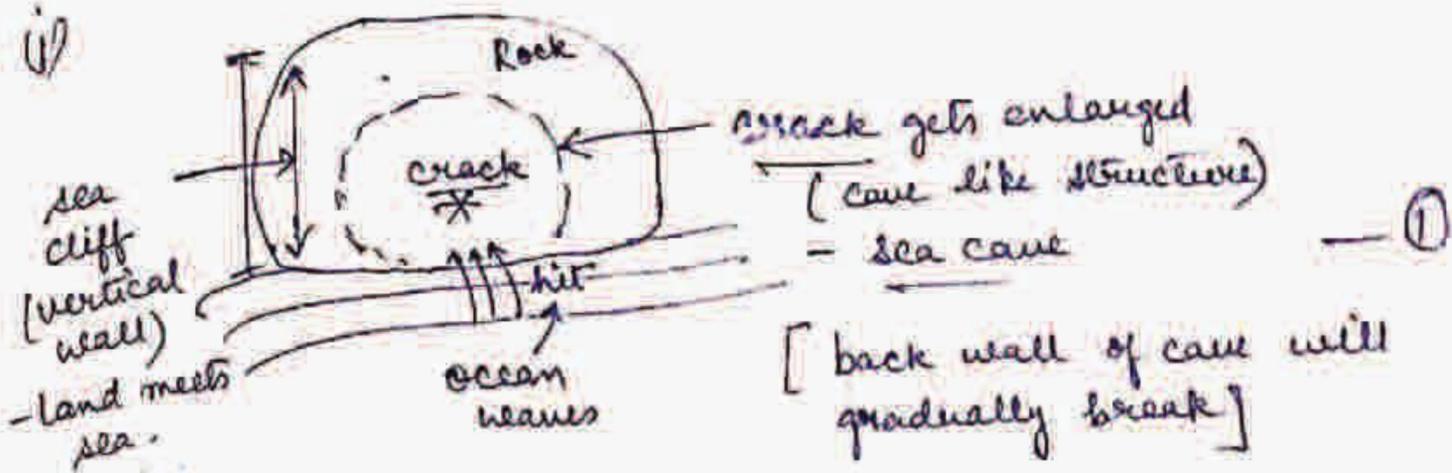


During flood - ②



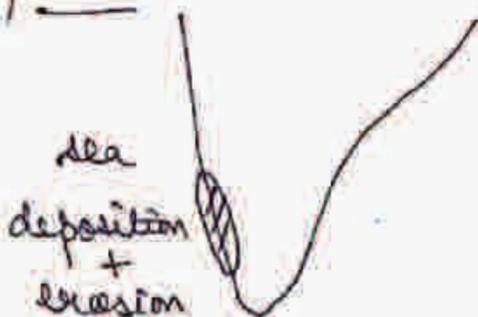
## ② Works of sea

(i)

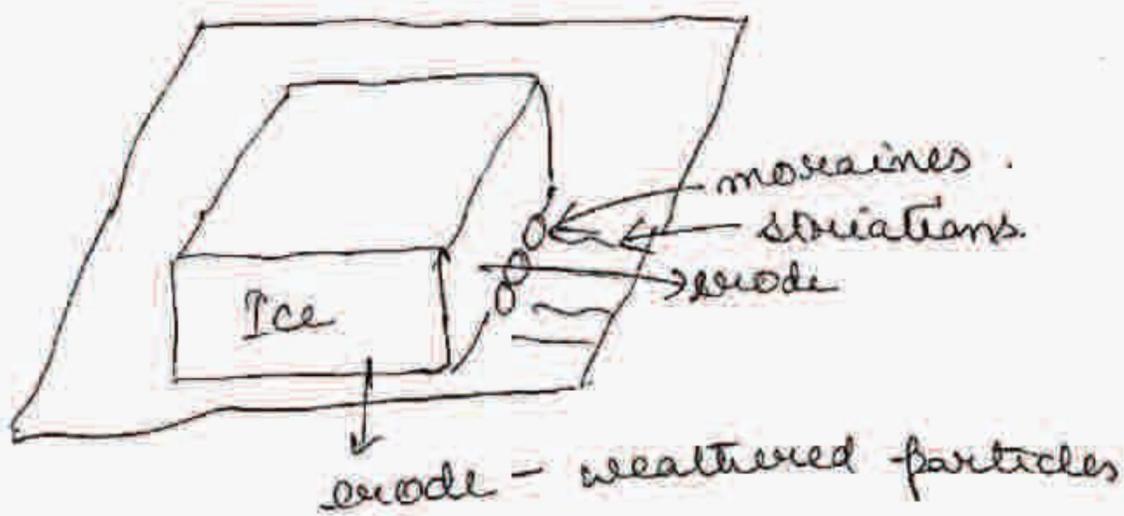
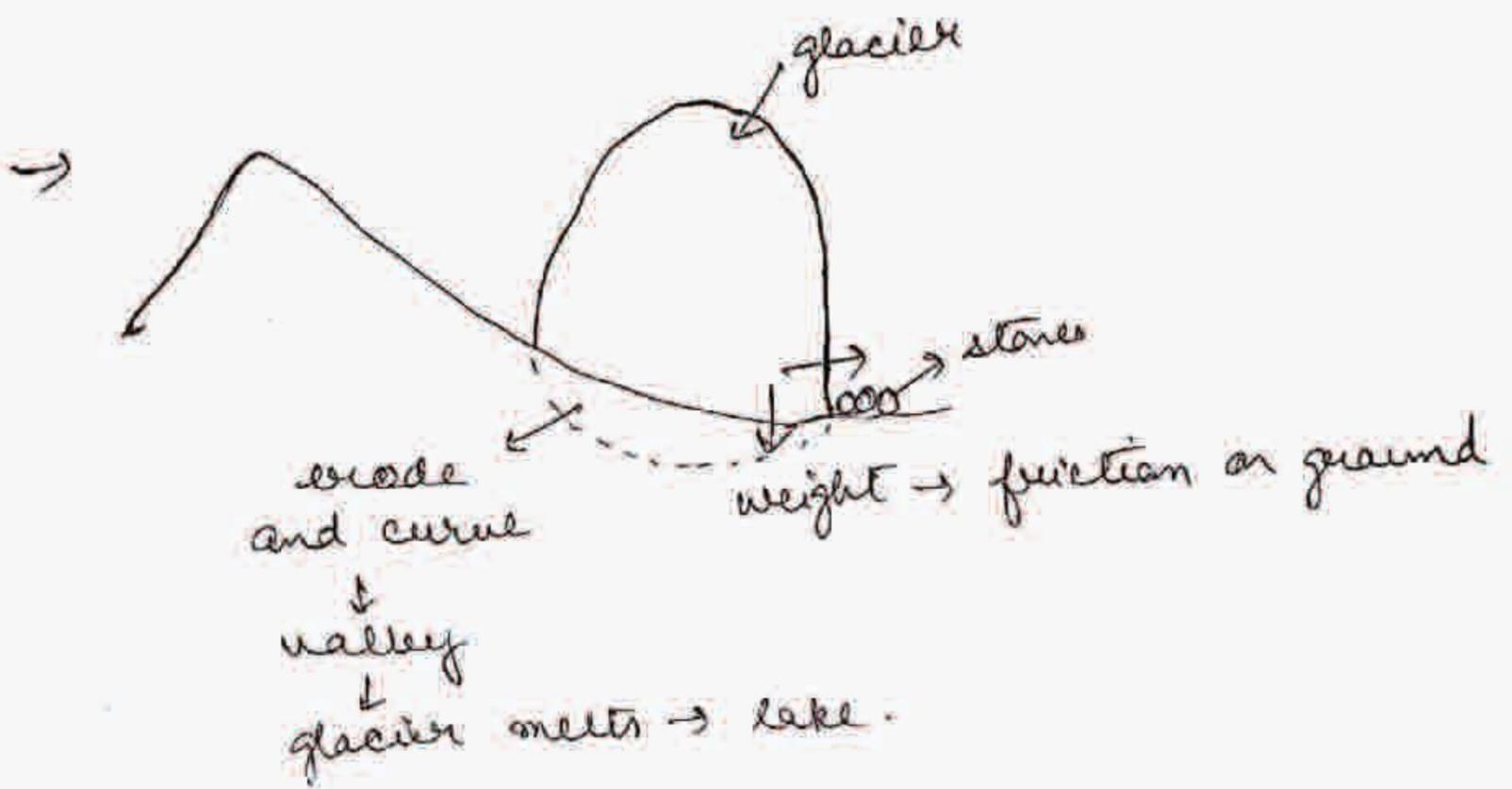


⇒ crack → sea cave → sea arch → stack

(ii) beach

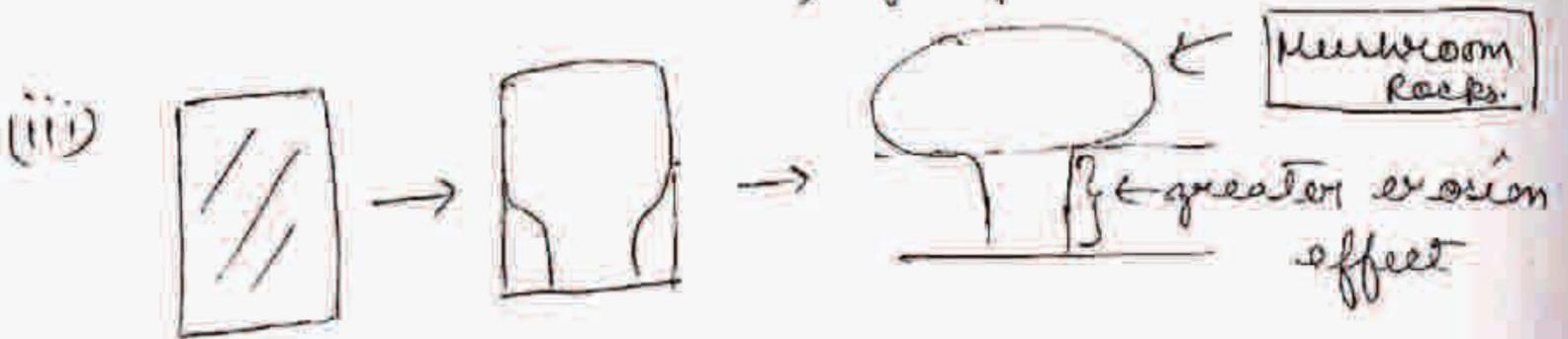
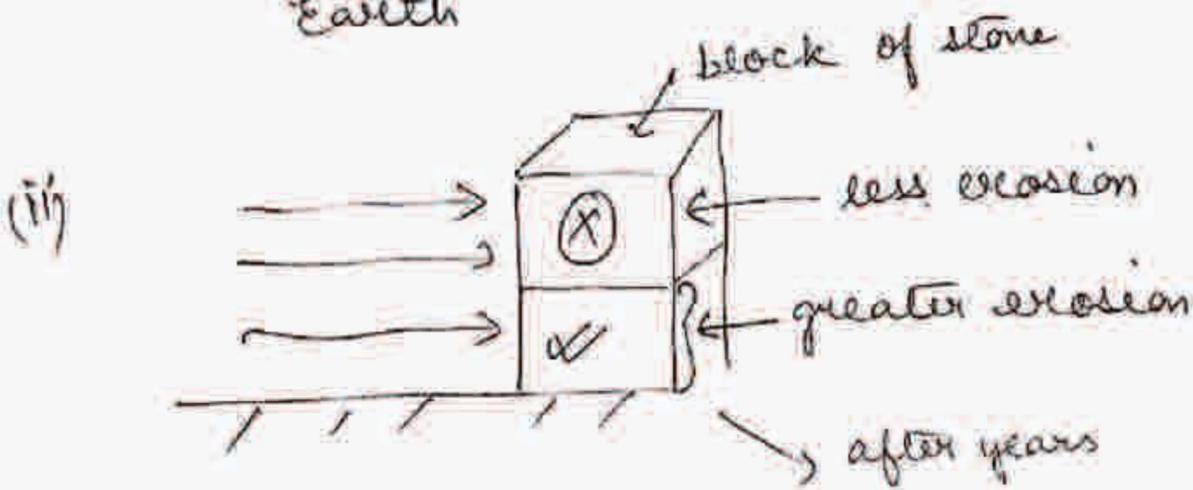
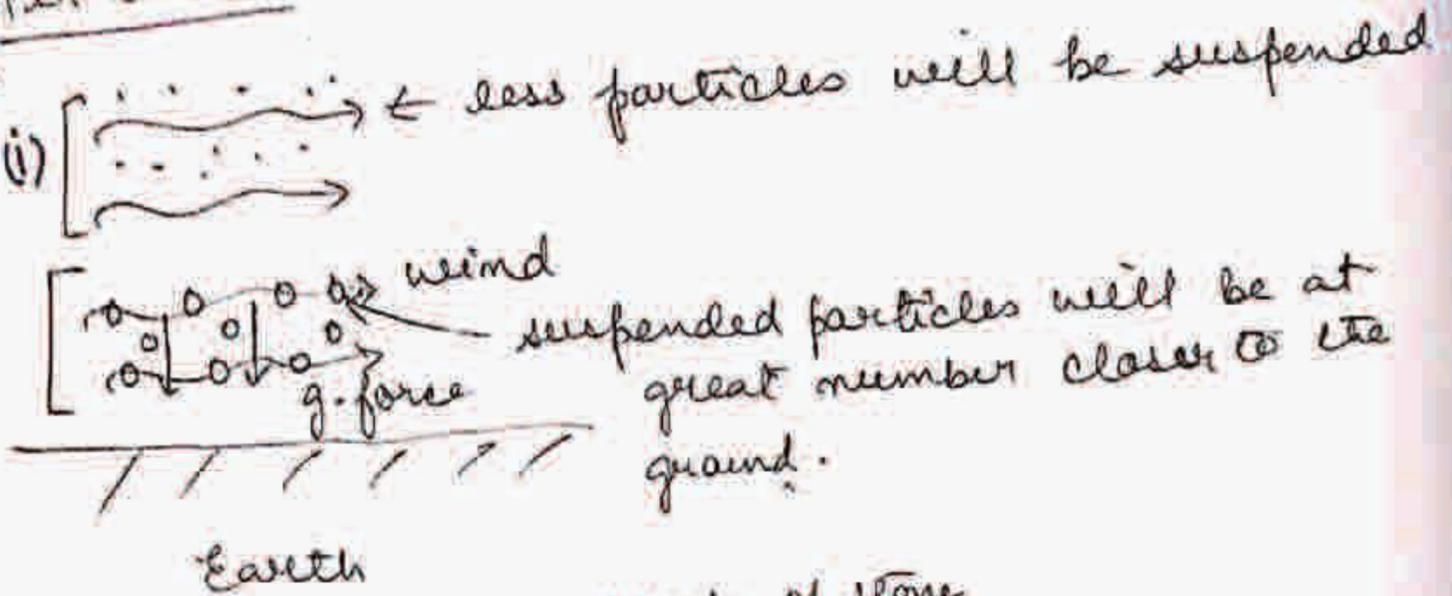


Works of ice



③ Air erosion

Mushroom Rocks



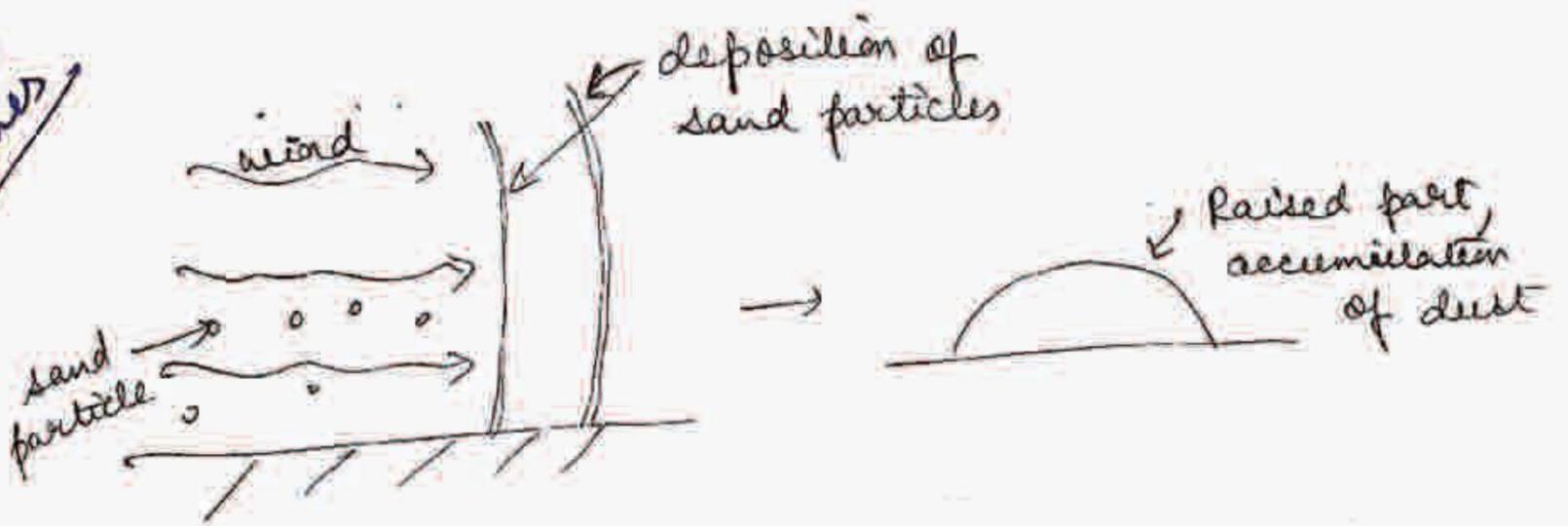
Certain agents of erosion

- water
- ice
- air etc

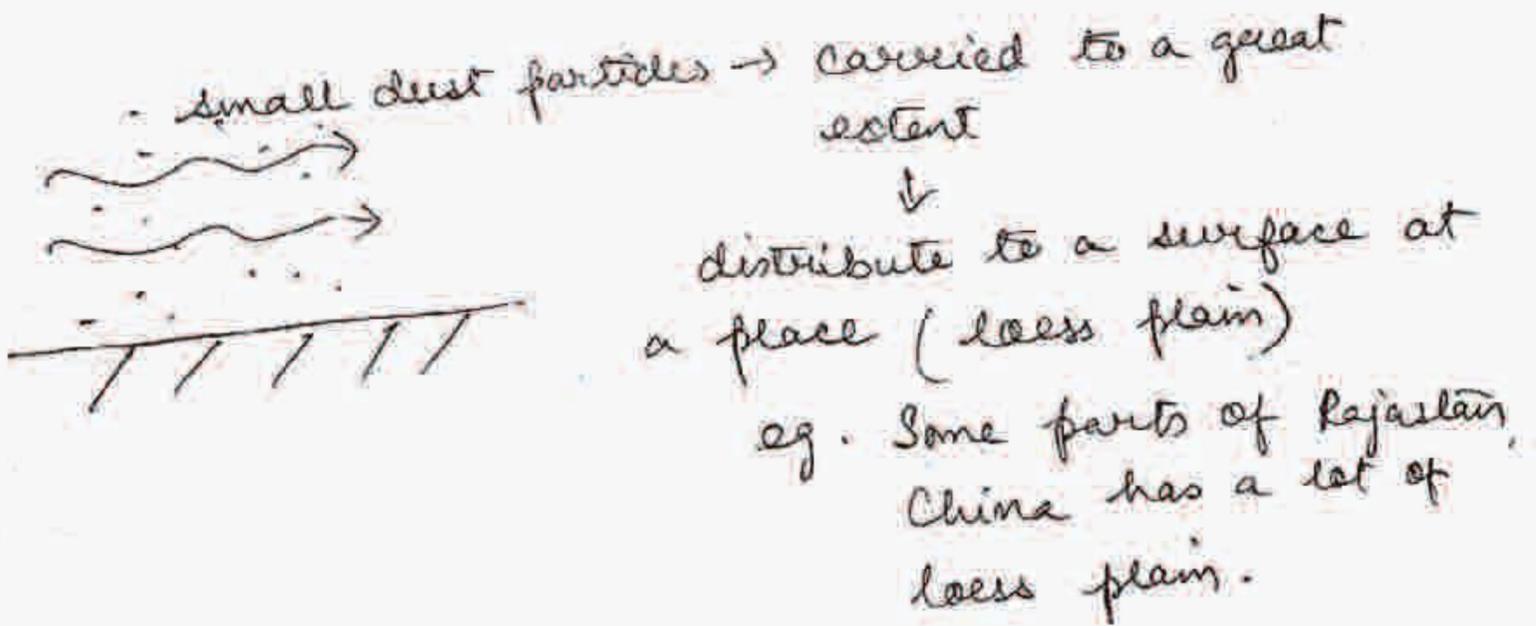
Mushroom rocks:

- ① Hot climate
- ② Desert
- ③ water, ice absent
- ④ Air erosion (dominating agent of erosion in desert)

Sand Dunes

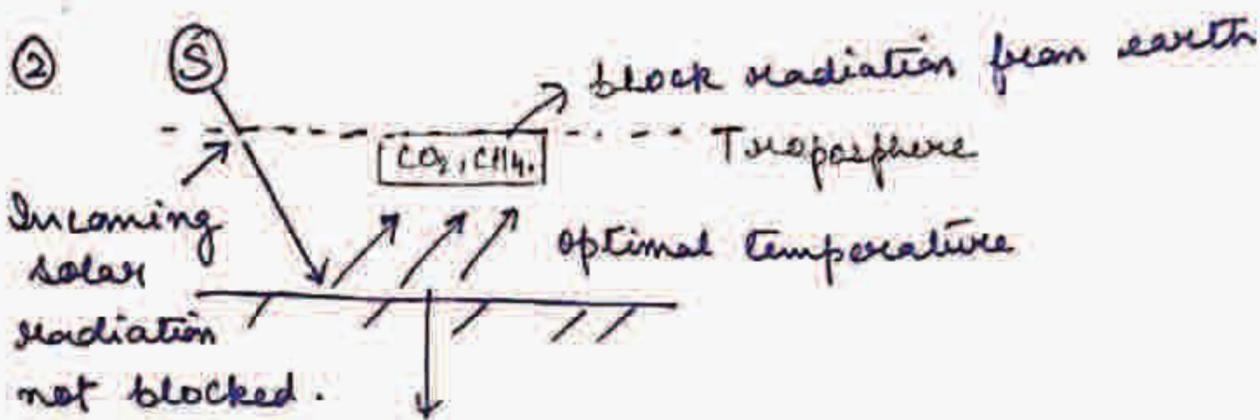


Loess Plain



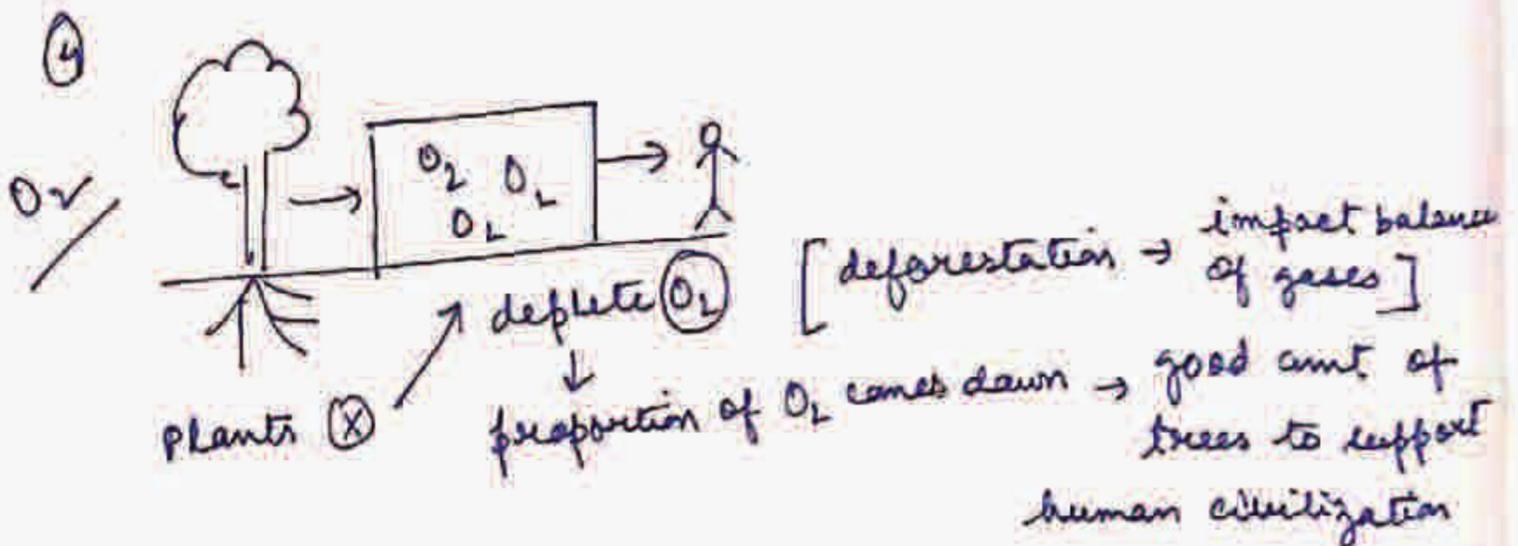
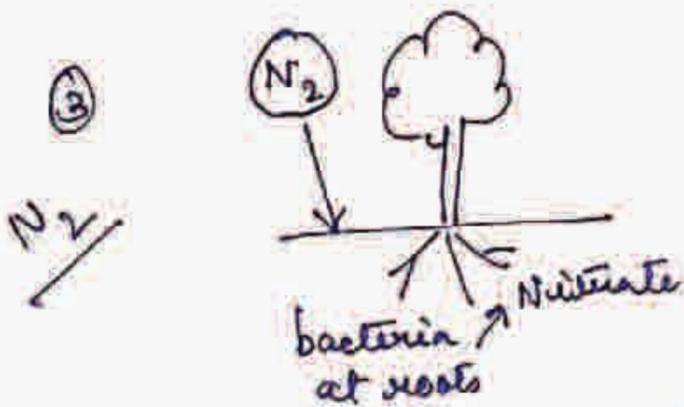
### Air - 4

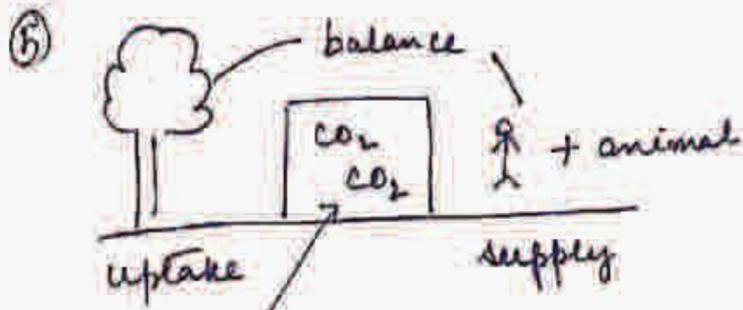
① Atmosphere - Refer cl. VI.



When much more heat is trapped → global warming → ice cap starts melting → sea level rise ↓ coastal life affected (flood)

→ N<sub>2</sub> > O<sub>2</sub> > Ar > CO<sub>2</sub>

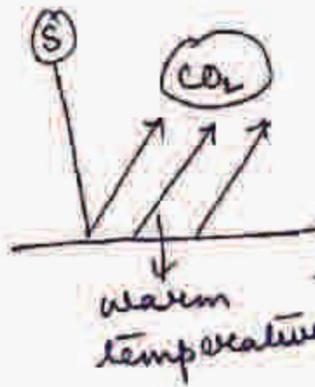




CO<sub>2</sub> →  
burning of  
coal, petroleum,  
diesel

anthropogenic factor → CO<sub>2</sub> increases → can't  
used by plants effectively → extra CO<sub>2</sub> →  
disturbs balance → excess CO<sub>2</sub> in atmosphere

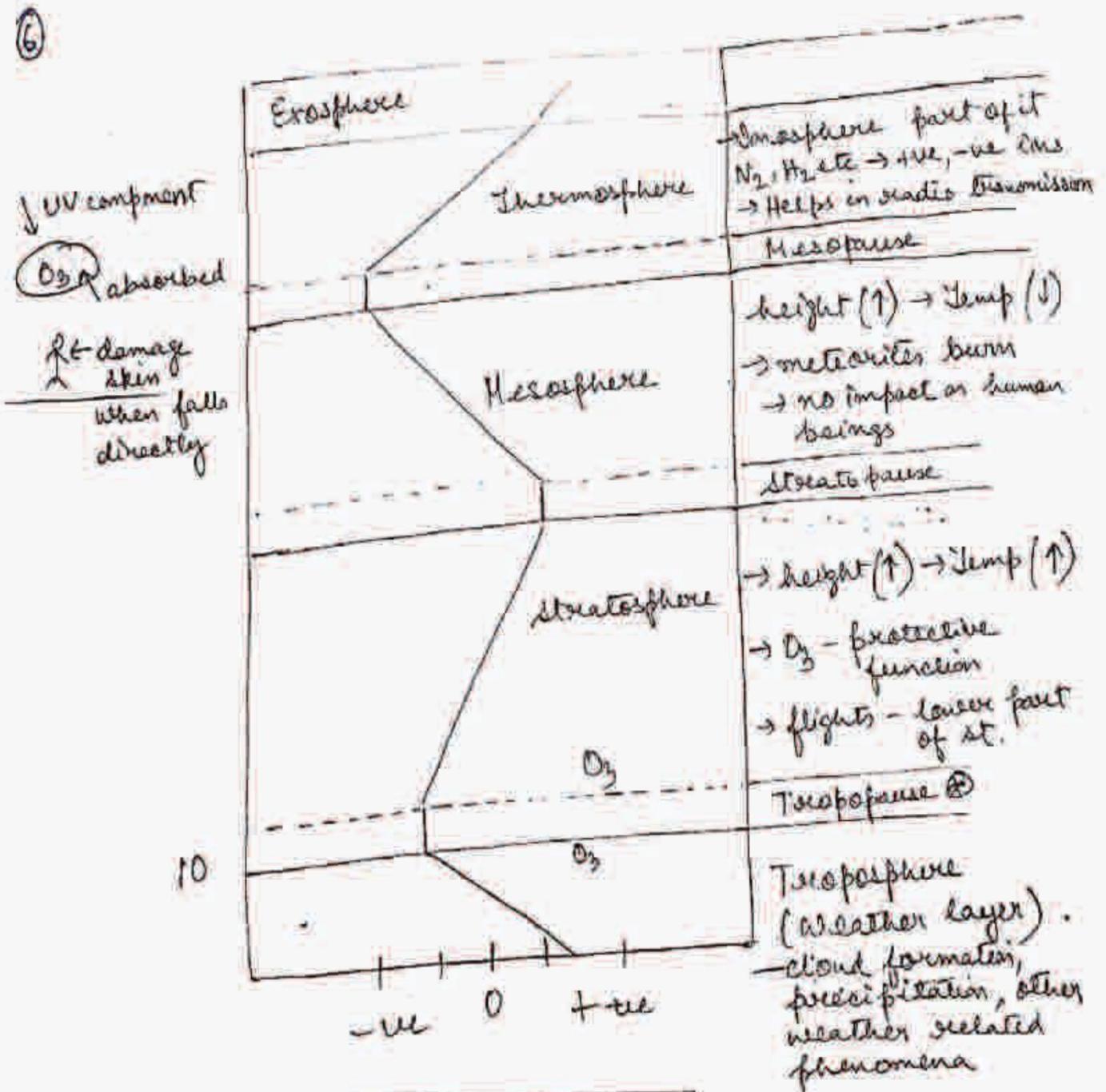
→ trapped more  
radiation from  
earth



→ ice melts  
↓  
coastal  
area  
affected.

global  
sunscreen  
- O<sub>3</sub>

6

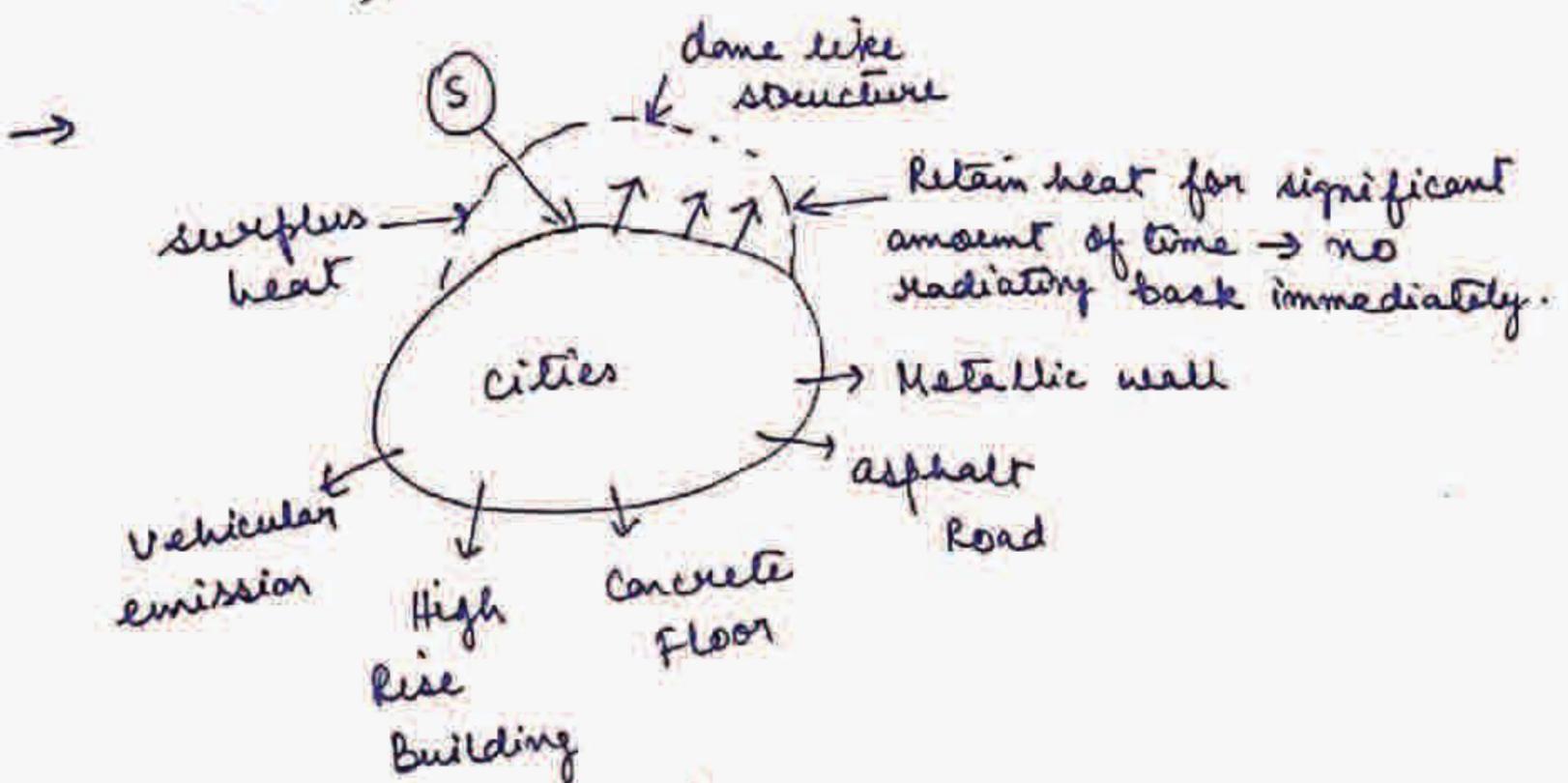
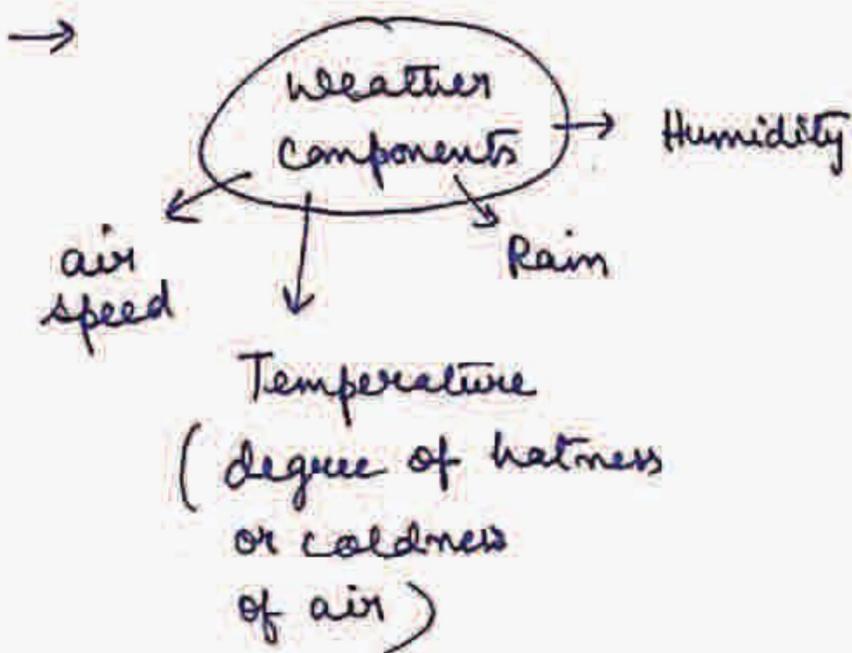


Layers of atmosphere

### ⊗ Inversion -

TP is the transition zone b/w troposphere and stratosphere where temperature stops decreasing with altitude and remains nearly constant for a brief period.

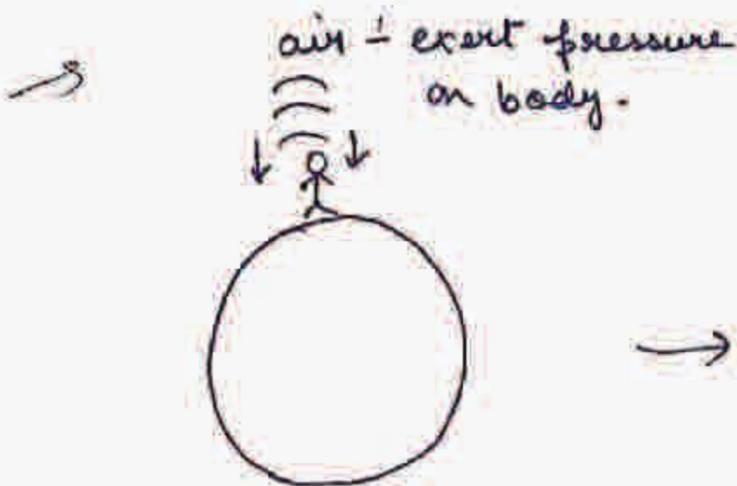
### ⊕ Weather - Climate : difference - (v)



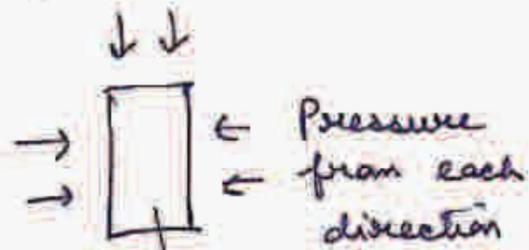
• Heat: Rural  $\ll$  Urban

• outskirts villages temperature may be less.

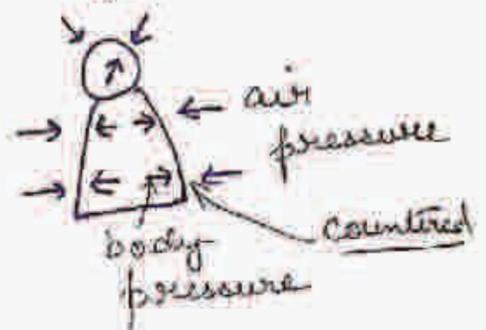
⑧ Air Pressure



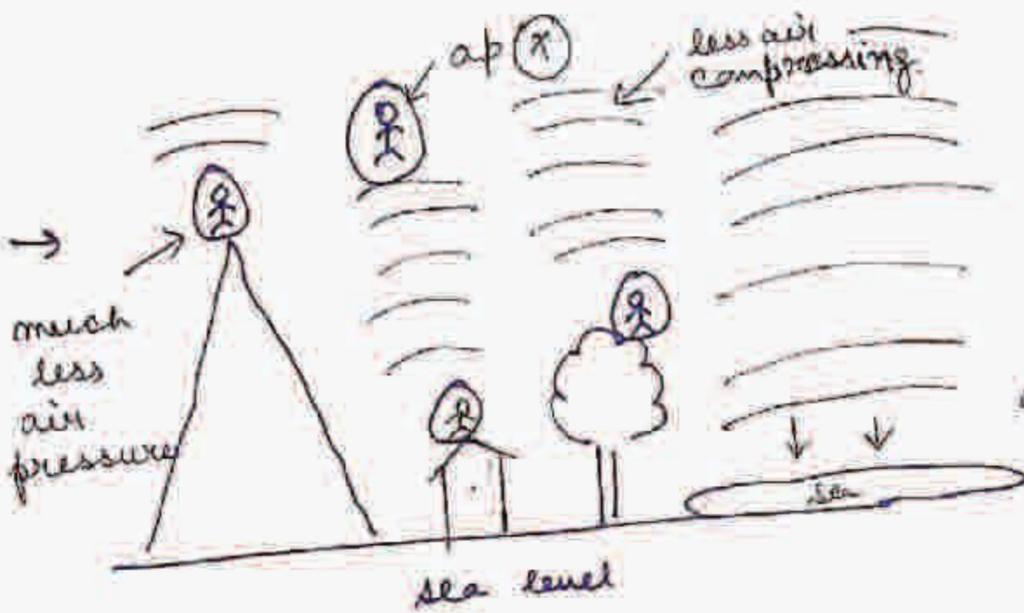
We don't feel the pressure.



Countered by body pressure

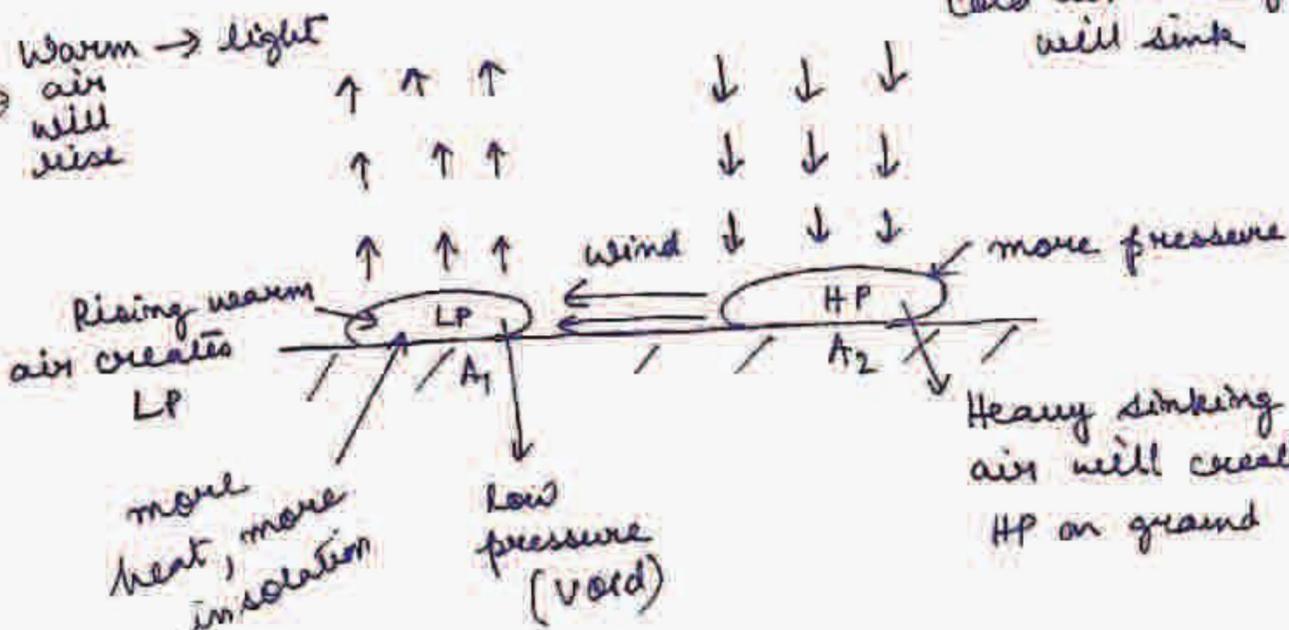


→ If air pressure remained, body pressure will tear arteries, veins → burst



air pressure at sea level is huge

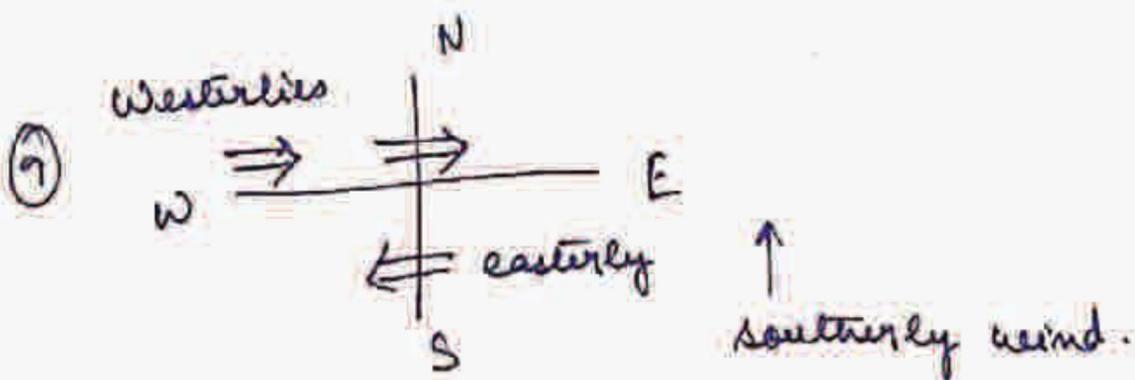
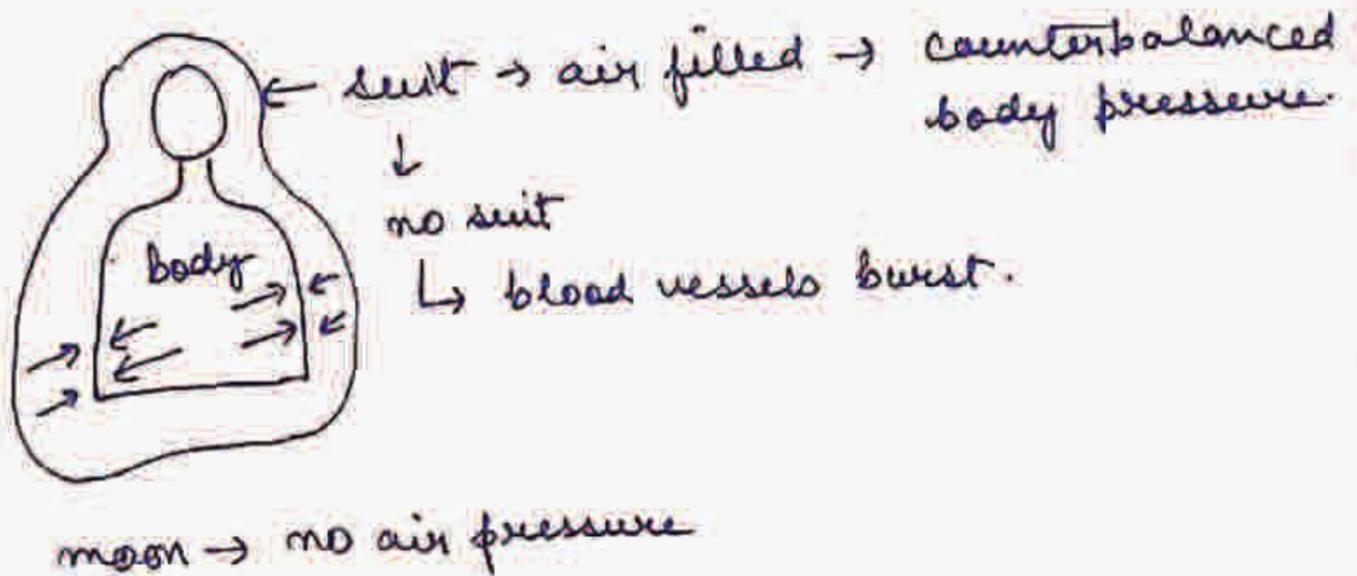
→ Warm air will rise



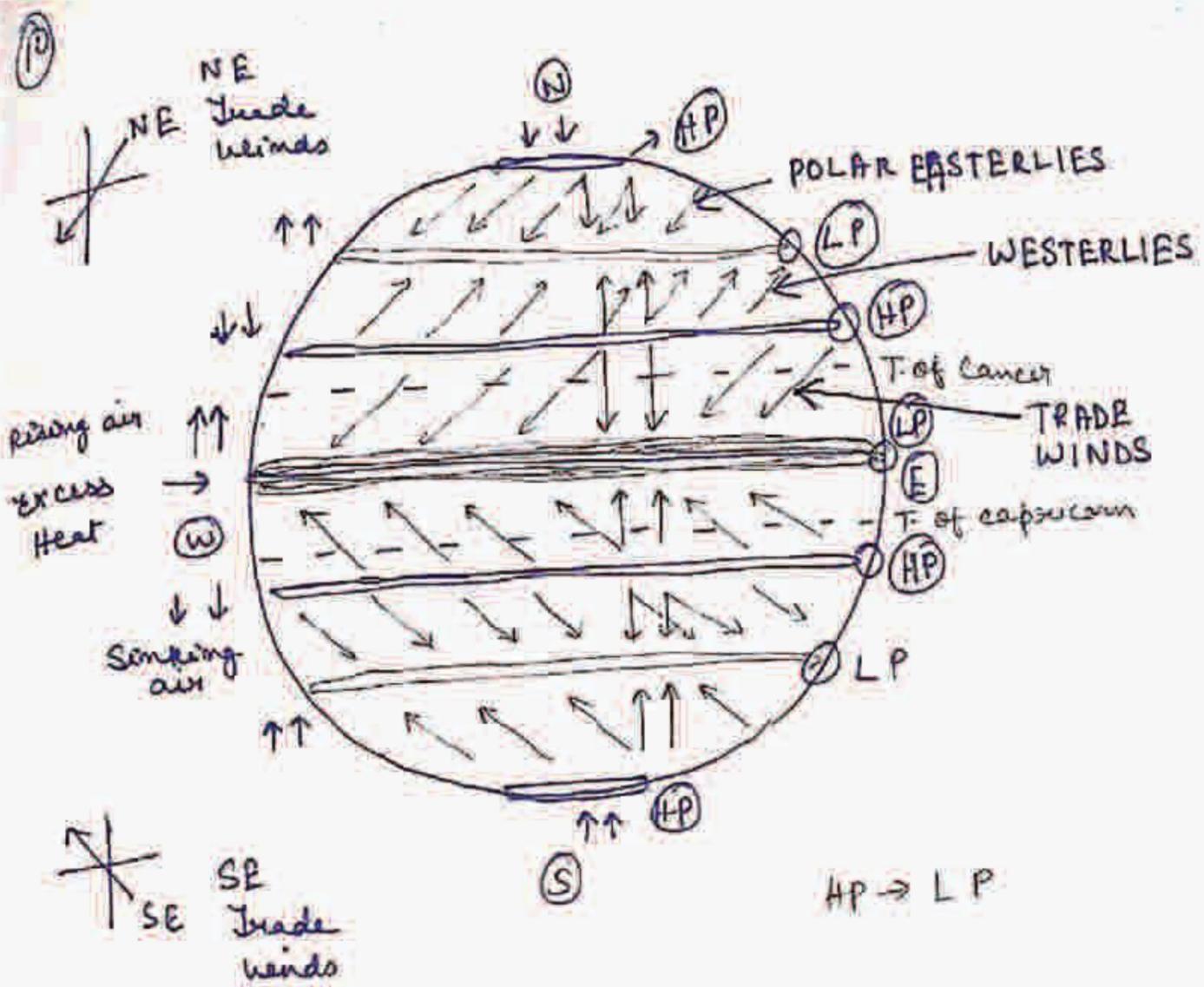
moving air - wind.

- ① Warm air being light will rise.
- ② air will always flow from HP → LP
- ③ Warm rising air is associated with cloud formation.
- ④ Sinking air is associated with clear sky and weather.
- ⑤ Heavy sinking air will create HP on ground.

ON MOON



Wind is named after the direction from which it blows.

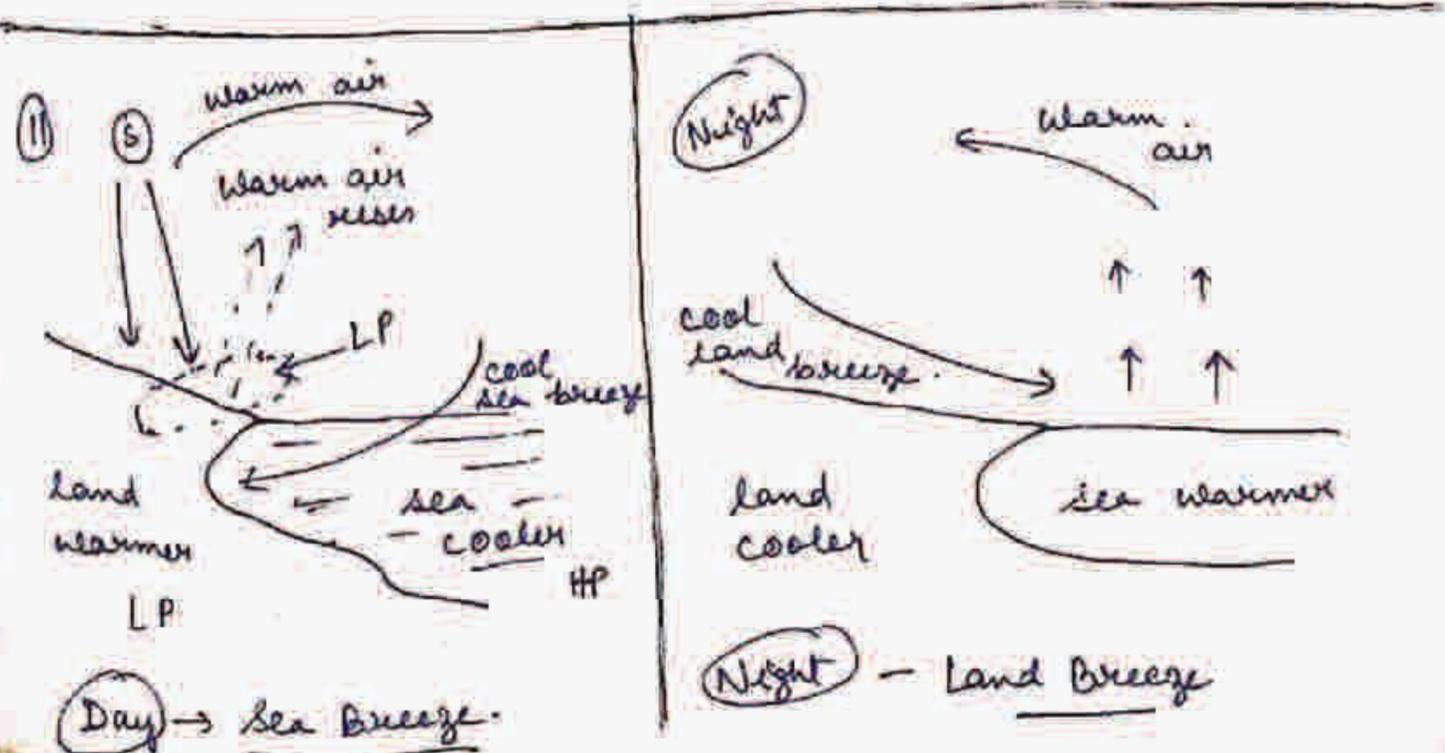


Rotation of earth - st. line of winds will tilt (Coriolis force)

N - Right  
S - Left.

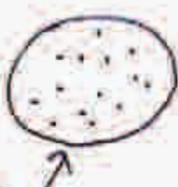
These winds will prevail across globe throughout the year - permanent wind.

Winds → Local (eg: land-sea breeze)  
→ Permanent  
→ Seasonal (eg. monsoon)



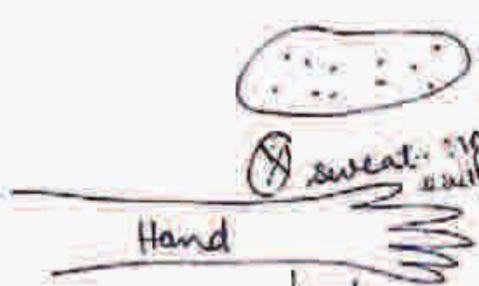
→ land gains/loses heat more quickly in comparison to water.

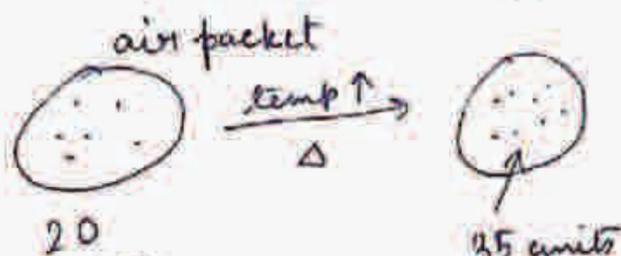
⑫ Humidity

→ Humidity →  water molecules in form of vapour  
 air packet (moisture content)

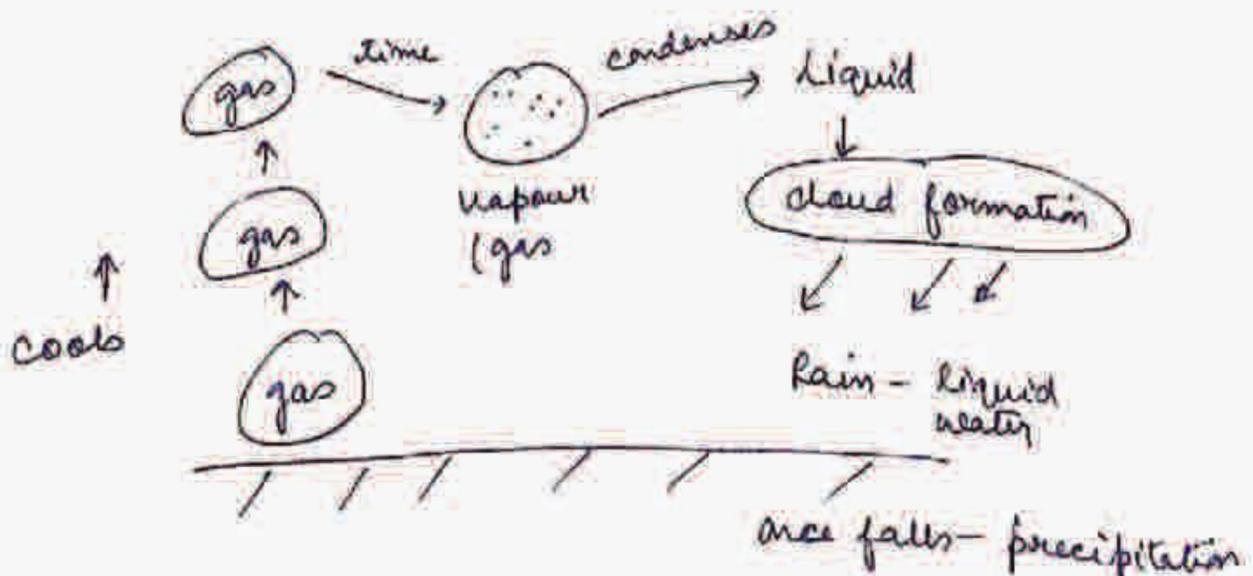
→ High humidity → more water molecules in air packet.

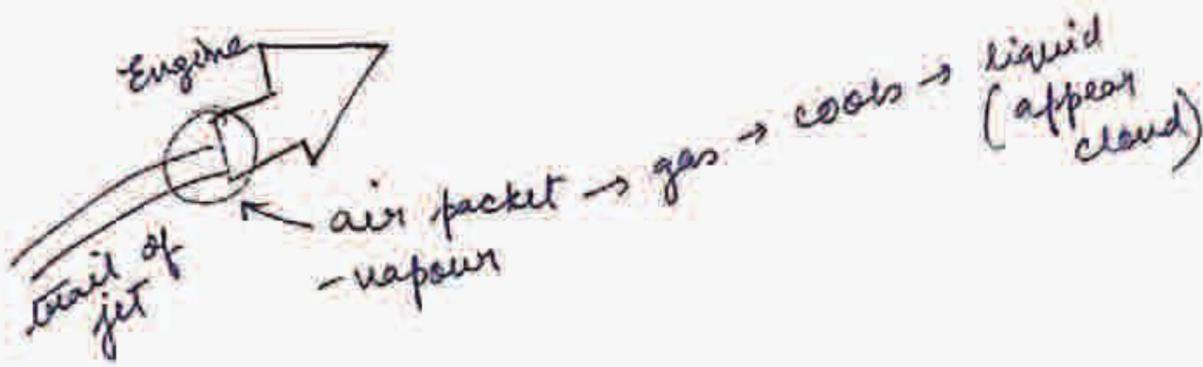
Less " → less w.m. in air packet

→  ← air packet filled with too much moisture, can't accommodate more from body  
 ⊗ sweat: <sup>not</sup> evaporate  
 Hand  
 ↓  
 ← Humidity less, (non-humid day) sweat evaporates faster

→  air packet  
 20 units to take moisture → temp ↑ Δ → 35 units

As air gets warmer, its capacity to hold the water vapour increases and so it becomes more humid.

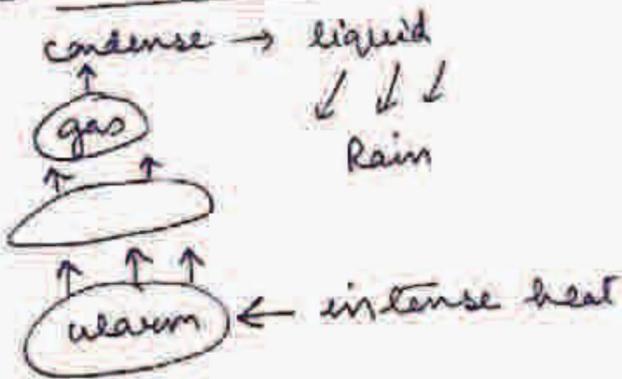
→   
 ↑ cool  
 gas → gas → gas → vapour (gas) → condenses → liquid → cloud formation → Rain - liquid water  
 once falls - precipitation



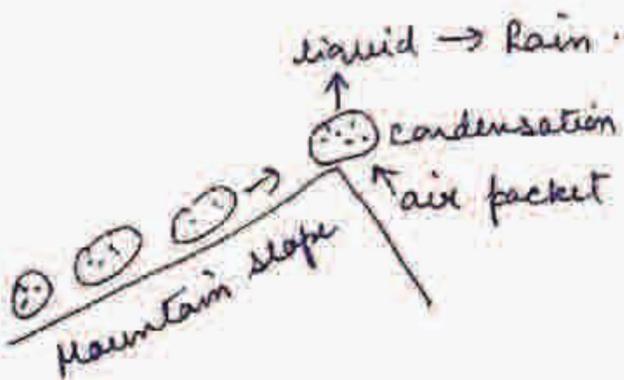
## ② Types of Rainfall.

Mechanism →  
 → convectional  
 → Orographic  
 → cyclonic.

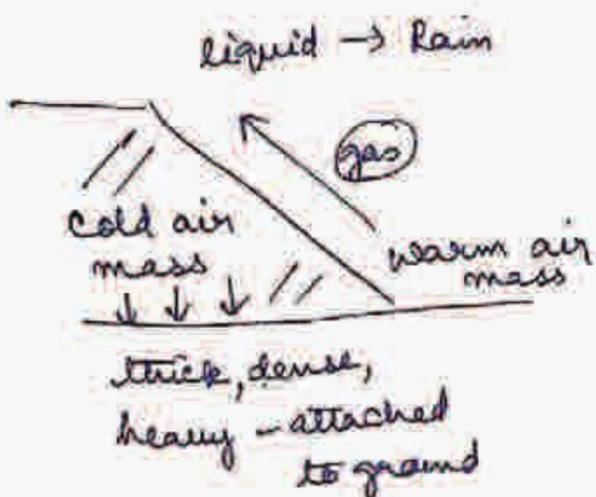
### ① Conventional Rain



### ② Orographic Rainfall



### ③ Cyclonic Rainfall

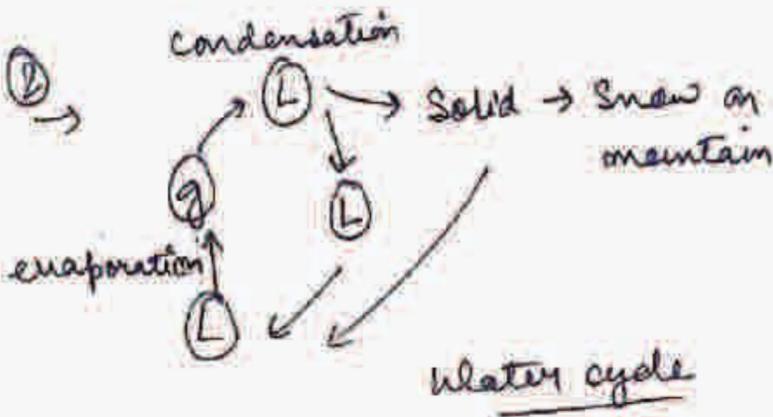
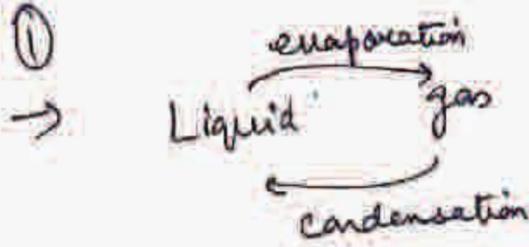


### Precipitation -

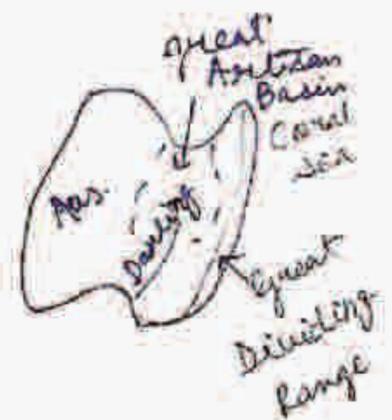
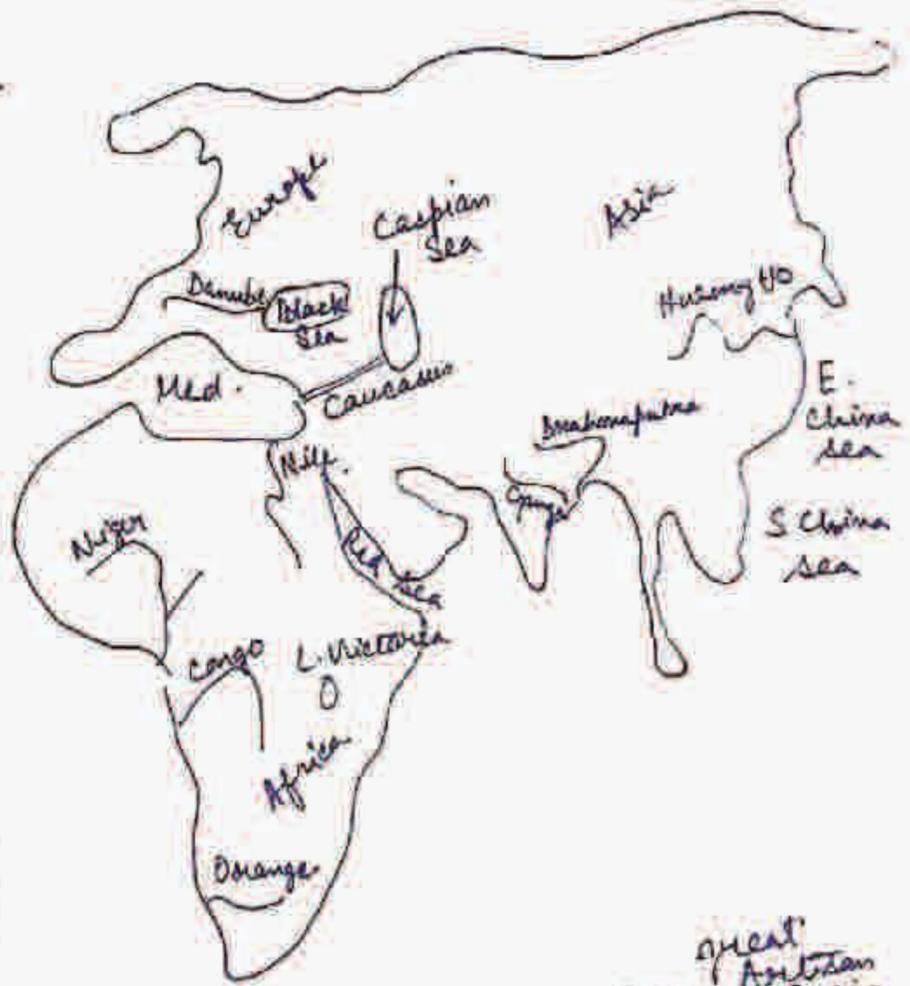
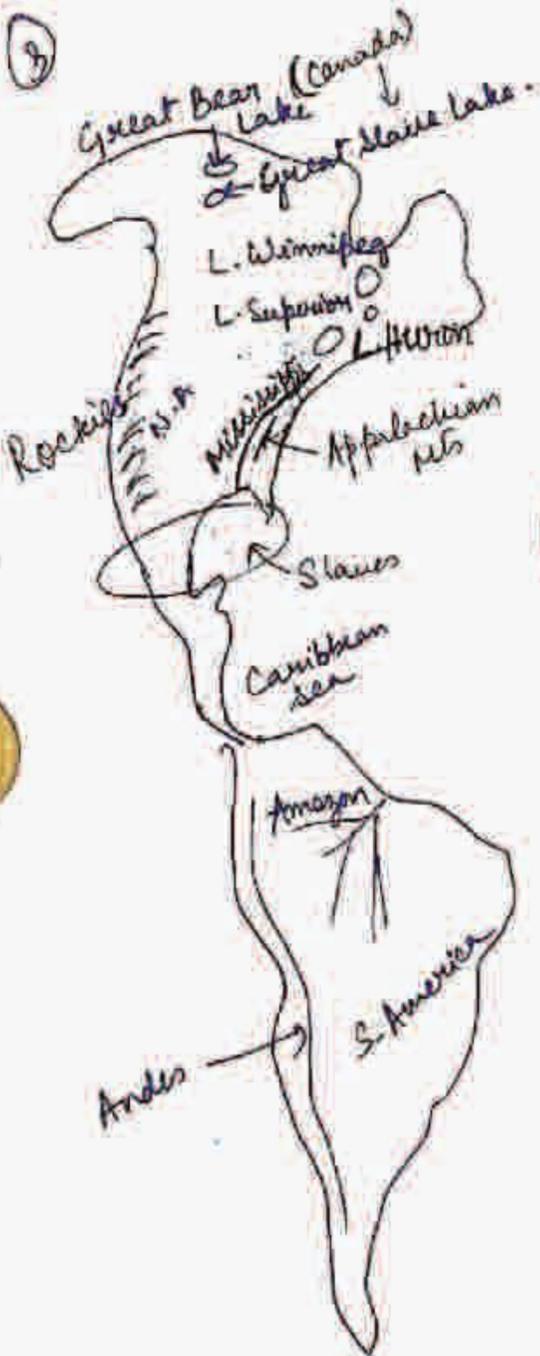
water droplets, too heavy to retain liquid particles, fall down on earth under gravitational force.

[Rain, snow, sleet, hail]

⑤ - water



earth: terracium



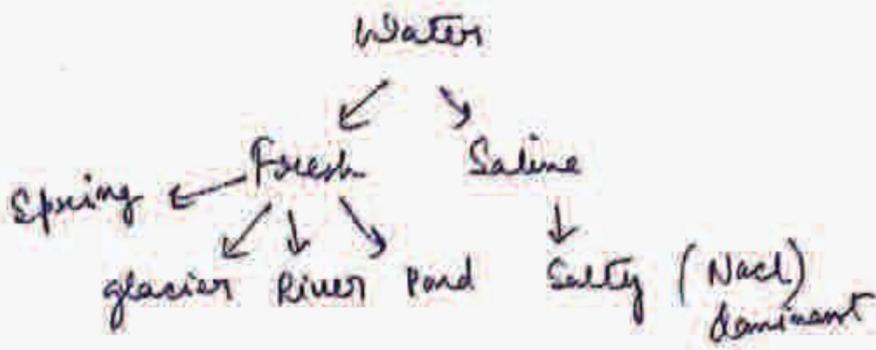
R. Mississippi - Bird foot like delta

Canada = USA - St. Lawrence River

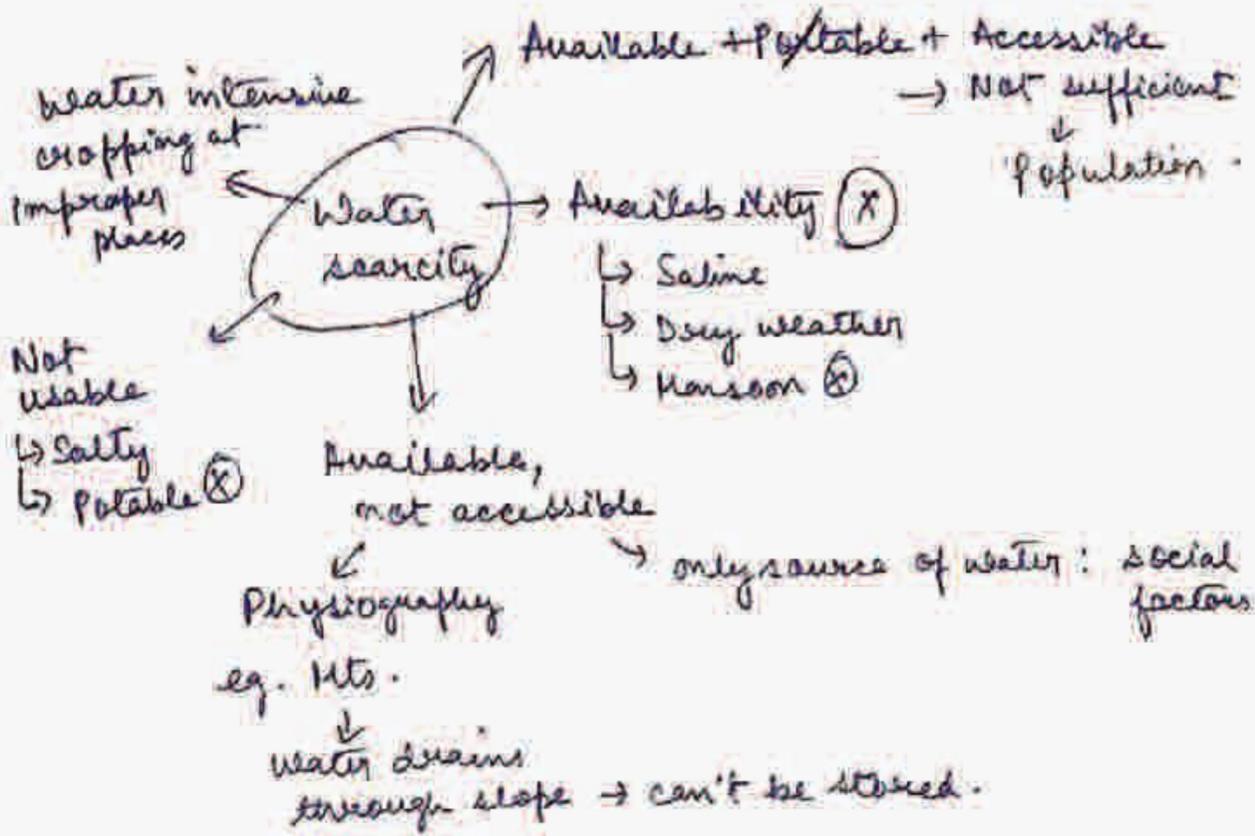
Atlantic Ocean - Busiest

Beijing St. - Arctic // Pacific

4

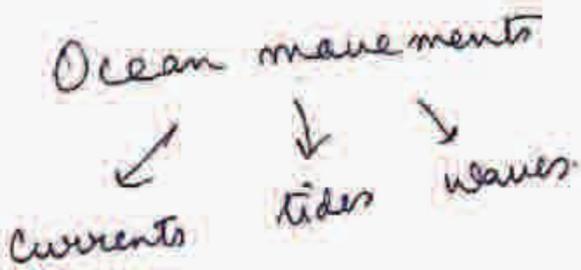


5

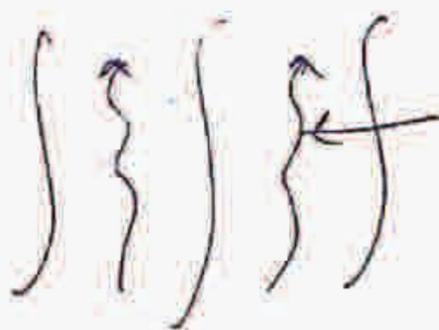


→ Agro-climatic crop - as per climate of that area  
 → "Nature will teach lessons in forms of repercussion"

6

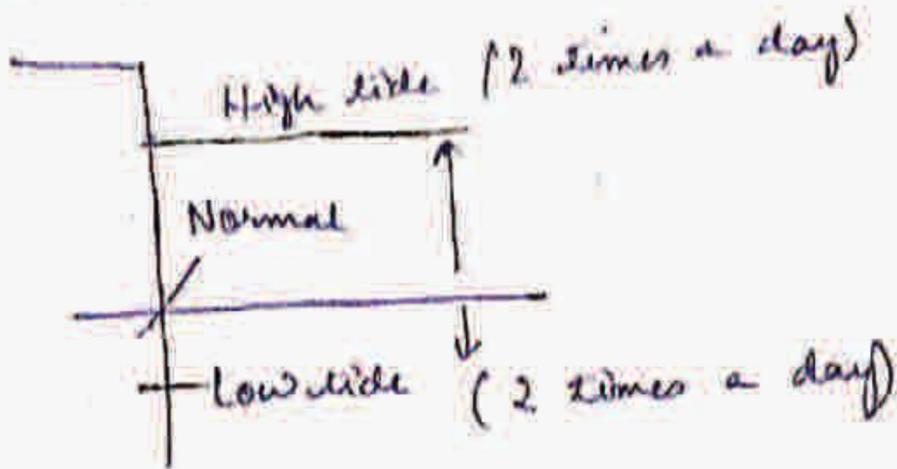


Current - narrow band of swift flowing water in ocean.

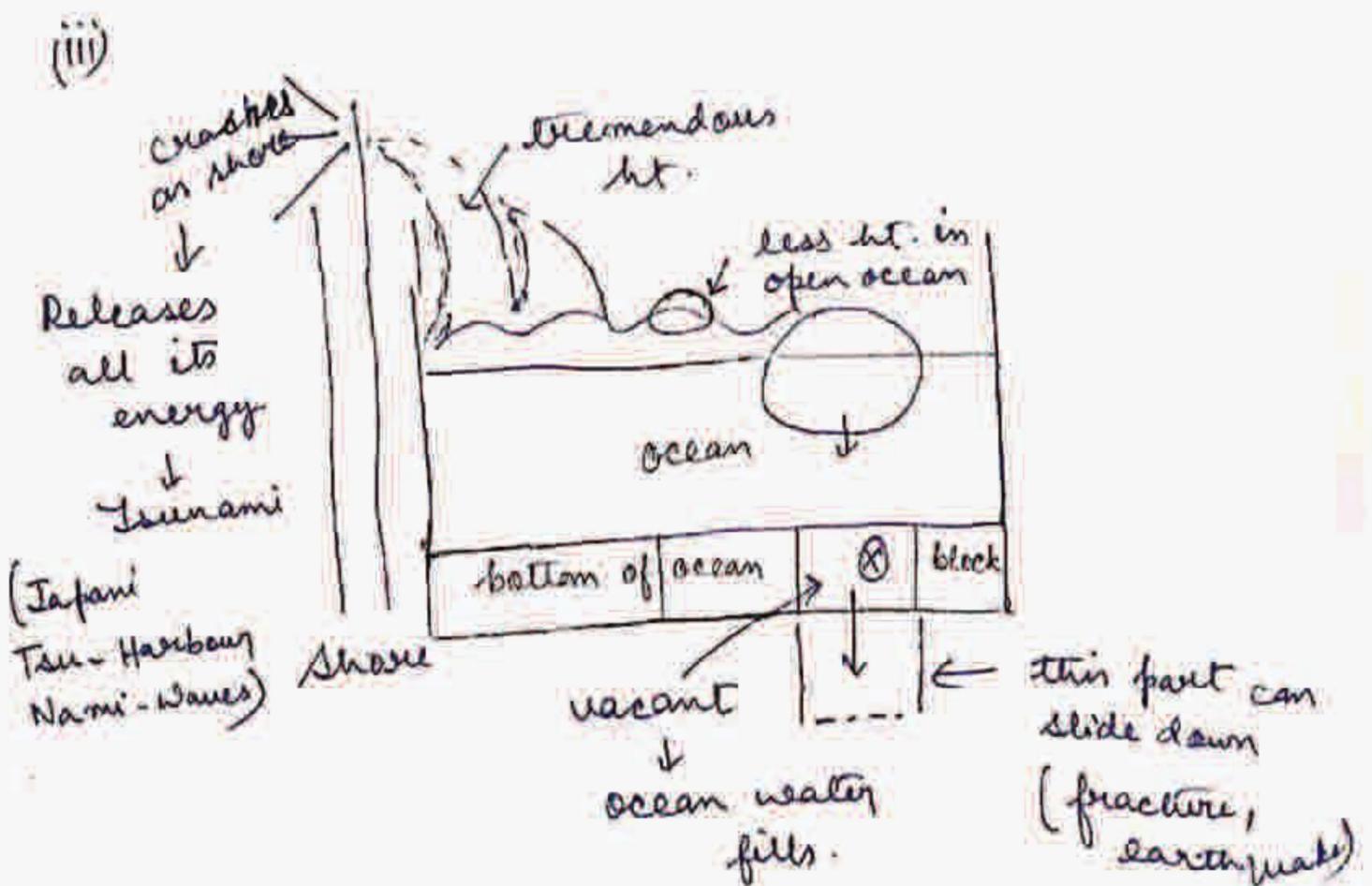
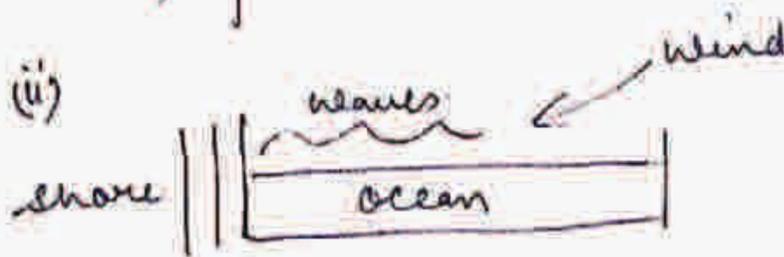
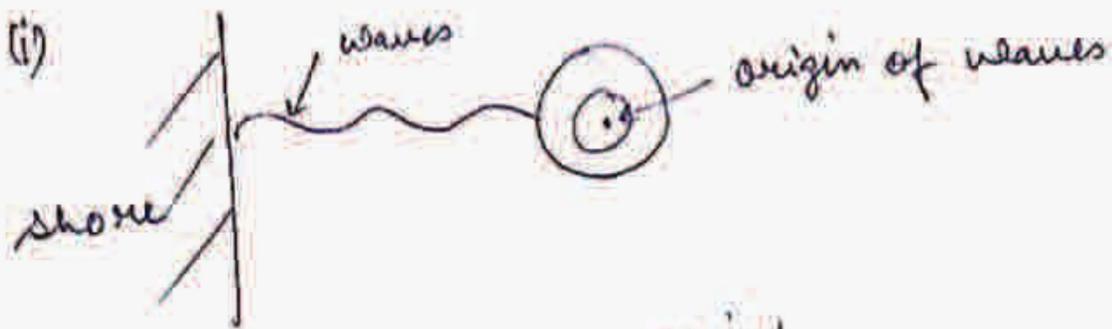


great speed, more noticeable.  
 (visible attributes)

→ Tides

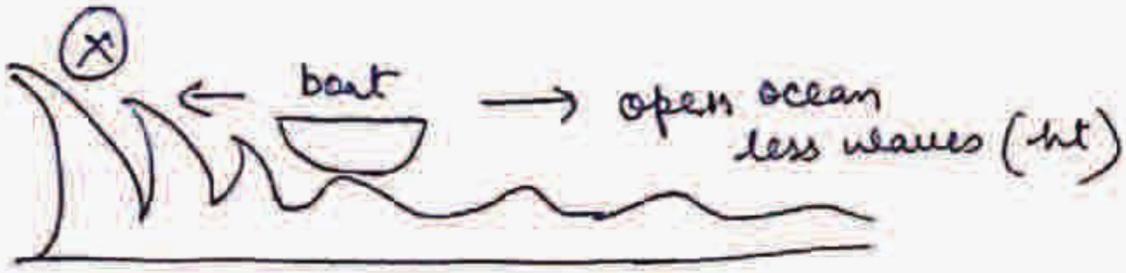


→ Waves



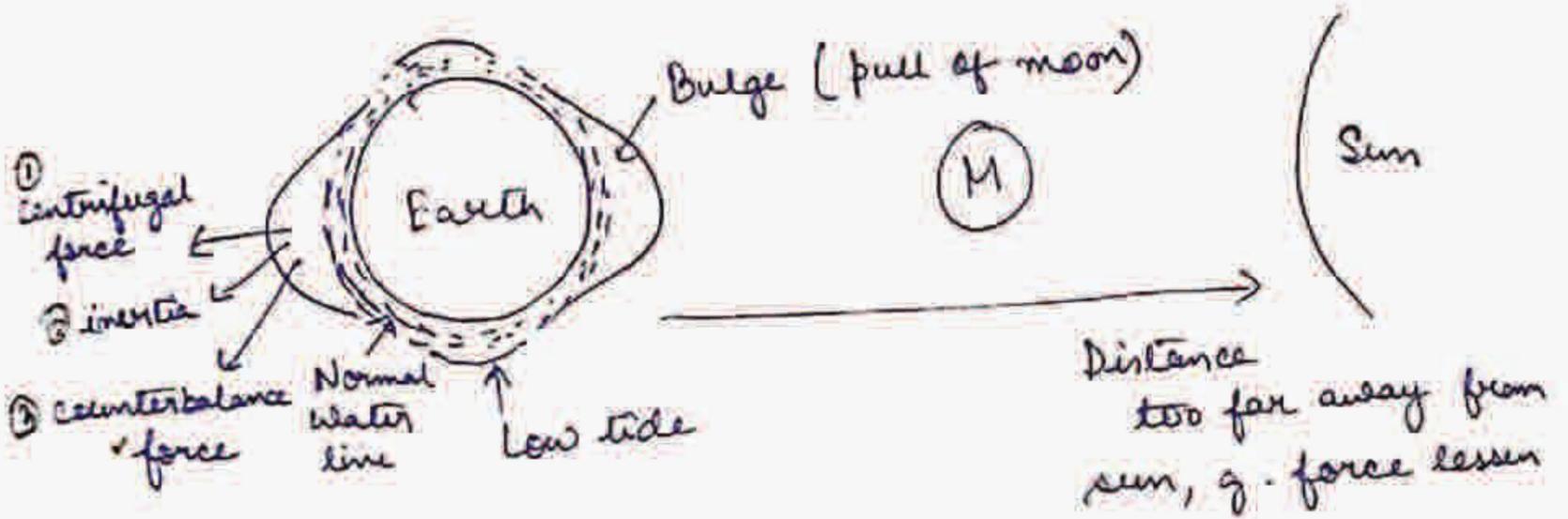
Tsunami

(iv)

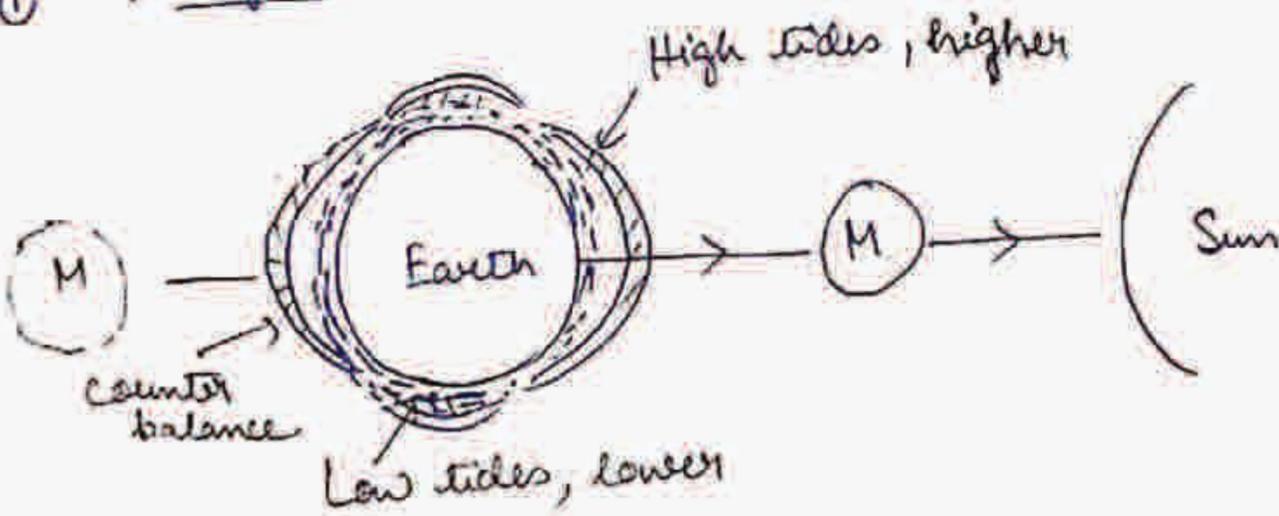


→ **Tides**

- ① g. pull of moon and sun
- ② Rotation of earth.



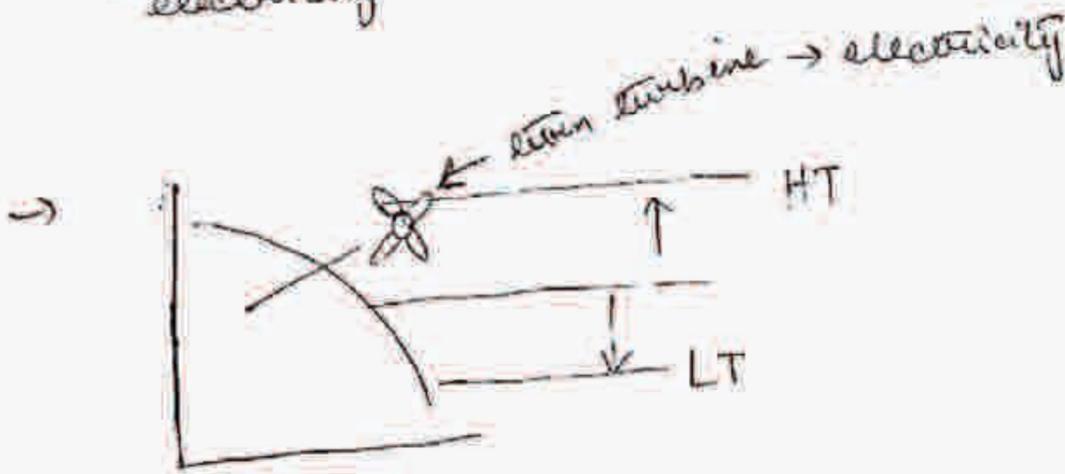
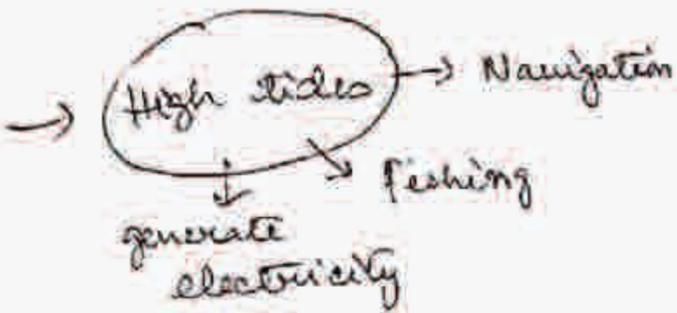
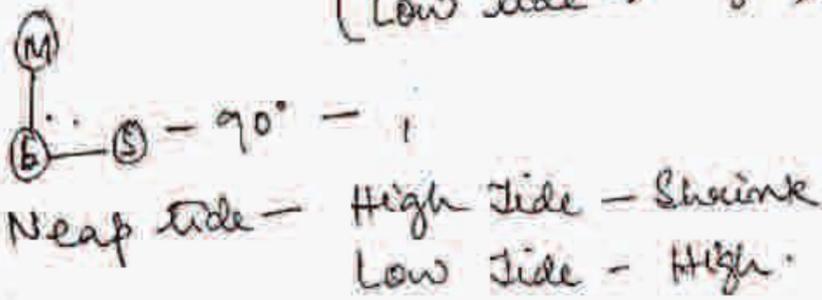
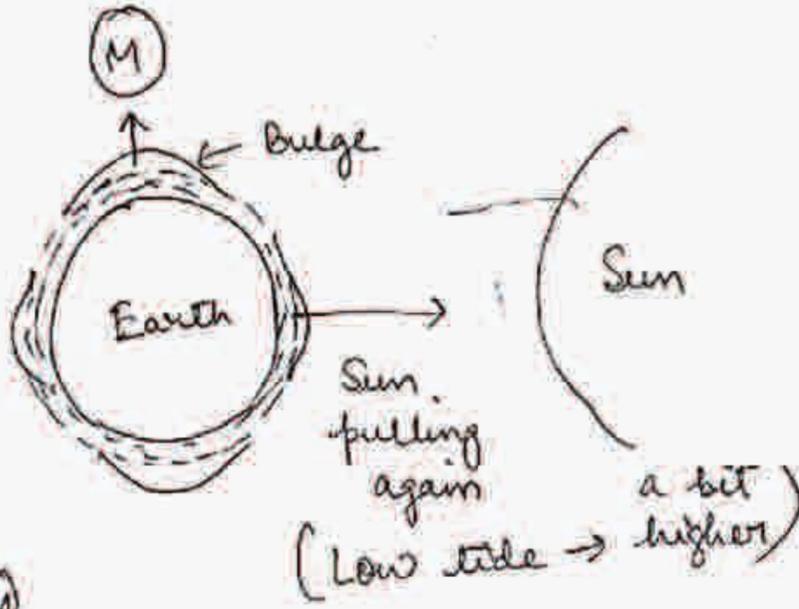
① Spring tide



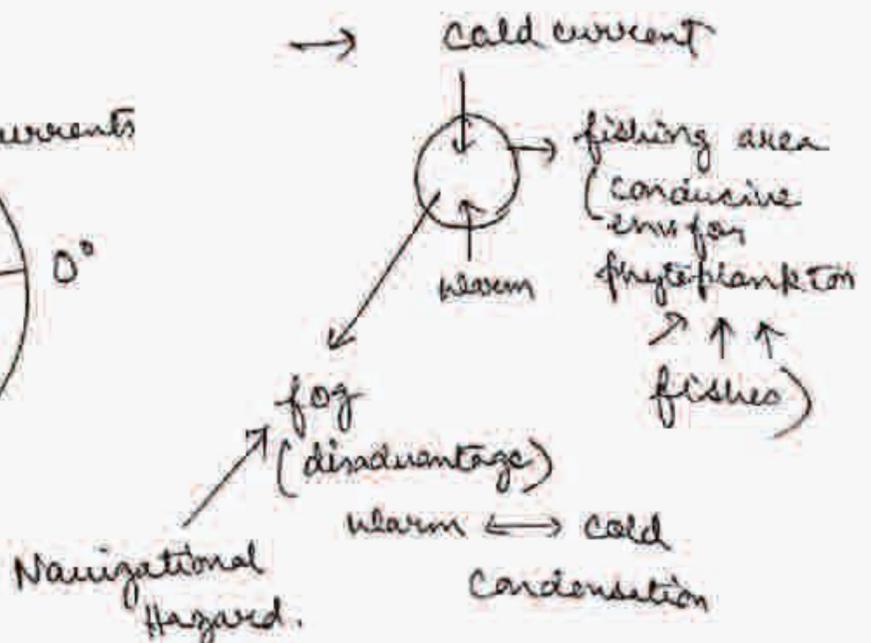
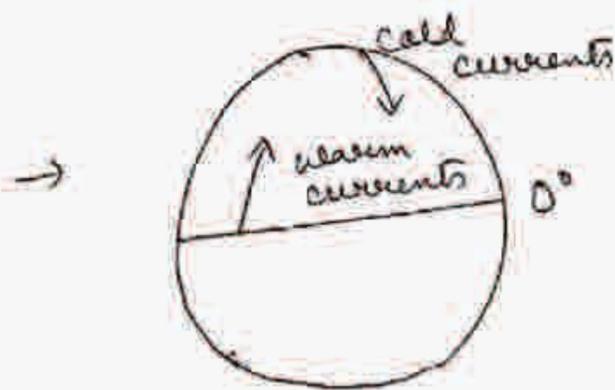
Earth, Sun, Moon are in a straight line,

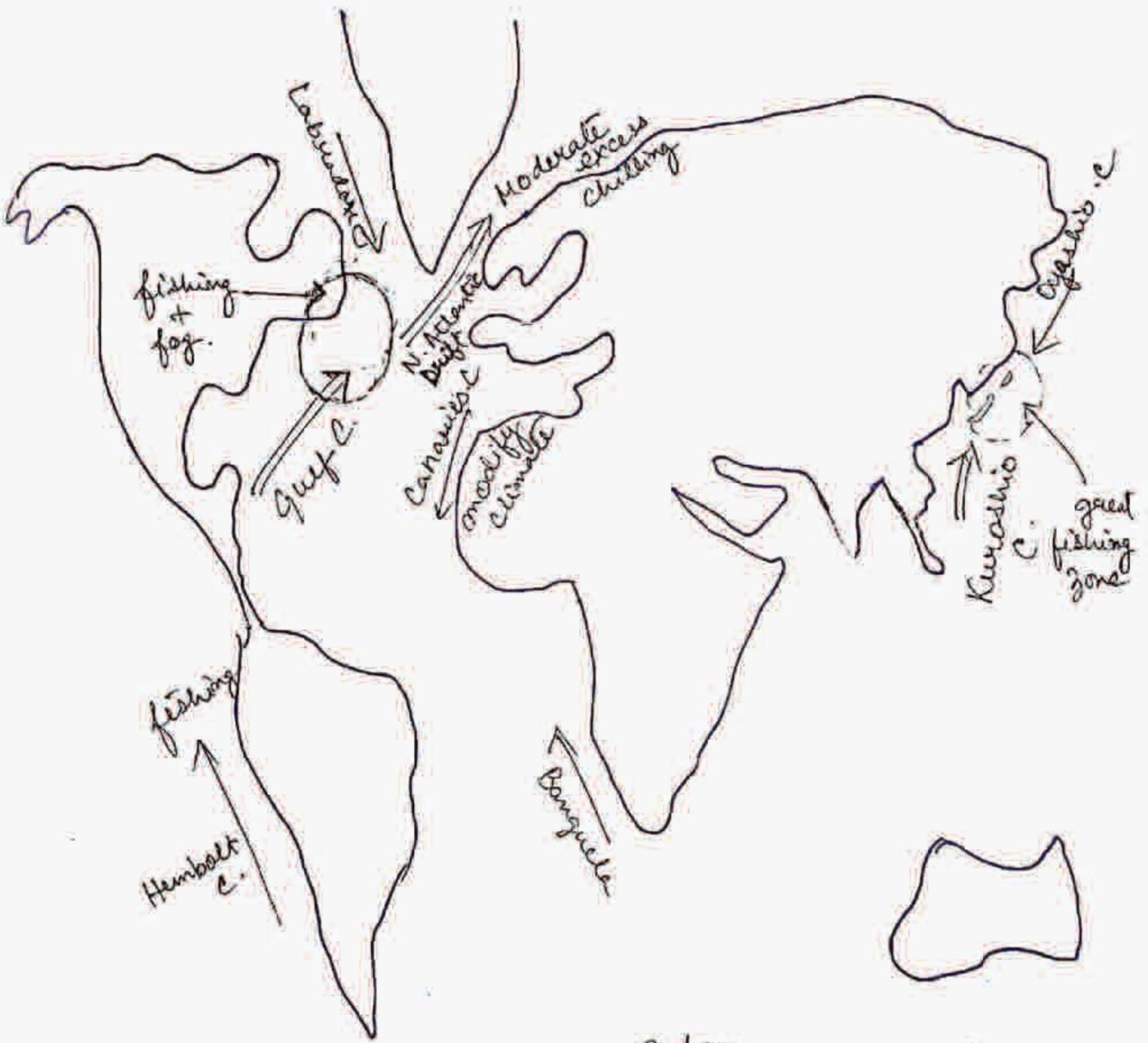
Moon + (S) → Pull = Bulge will increase, (HT)  
LT → shrink a little.

Neap tide



Currents





⇒ Warm current  
→ Cold current

Refer  
NCERT

## Natural Vegetation and Wildlife - Ch 6

- ① Vegetation → artificial → eg. Tea (Not agro-climatic, Human intervention)  
 ↓  
 Natural (without human intervention)  
 ↳ Climate + Topography.

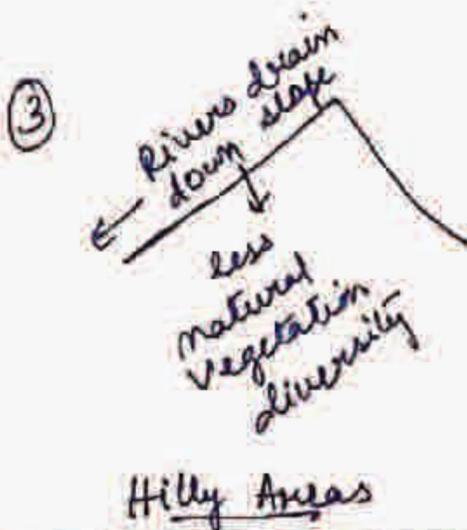
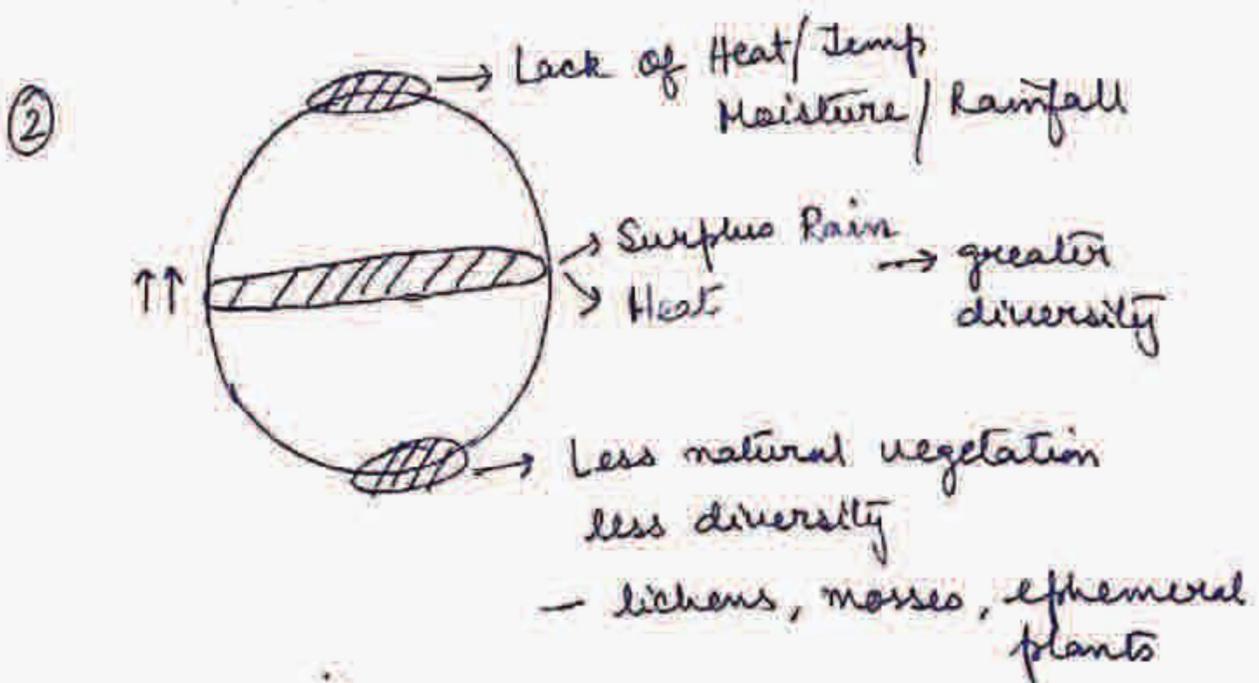
→ 'Altitude mimics latitude'

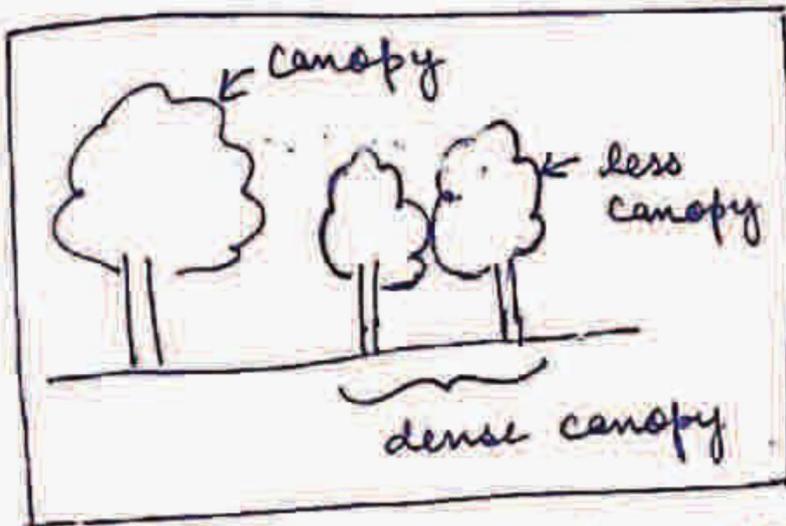
Altitude (↑) → cooler climate → impact on vegetation

→ Determine vegetation in any area  
 ↳ Moisture/Rainfall  
 ↳ Heat/Temperature

• other factors - landforms, soils

[Soil formation is dependant on climate manifestation of that area - general scenario]

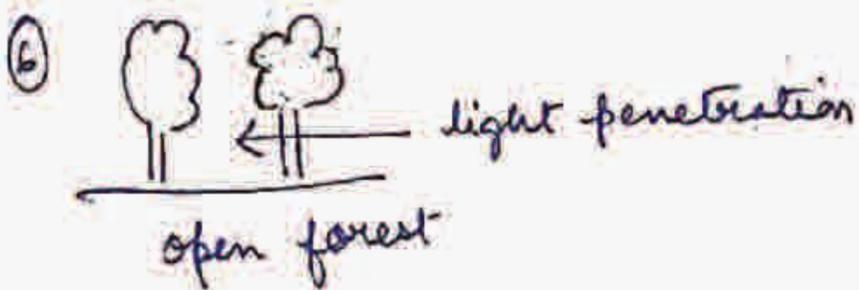




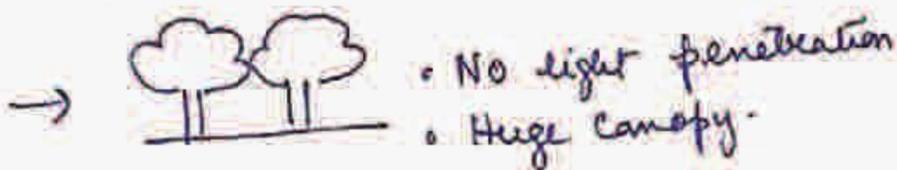
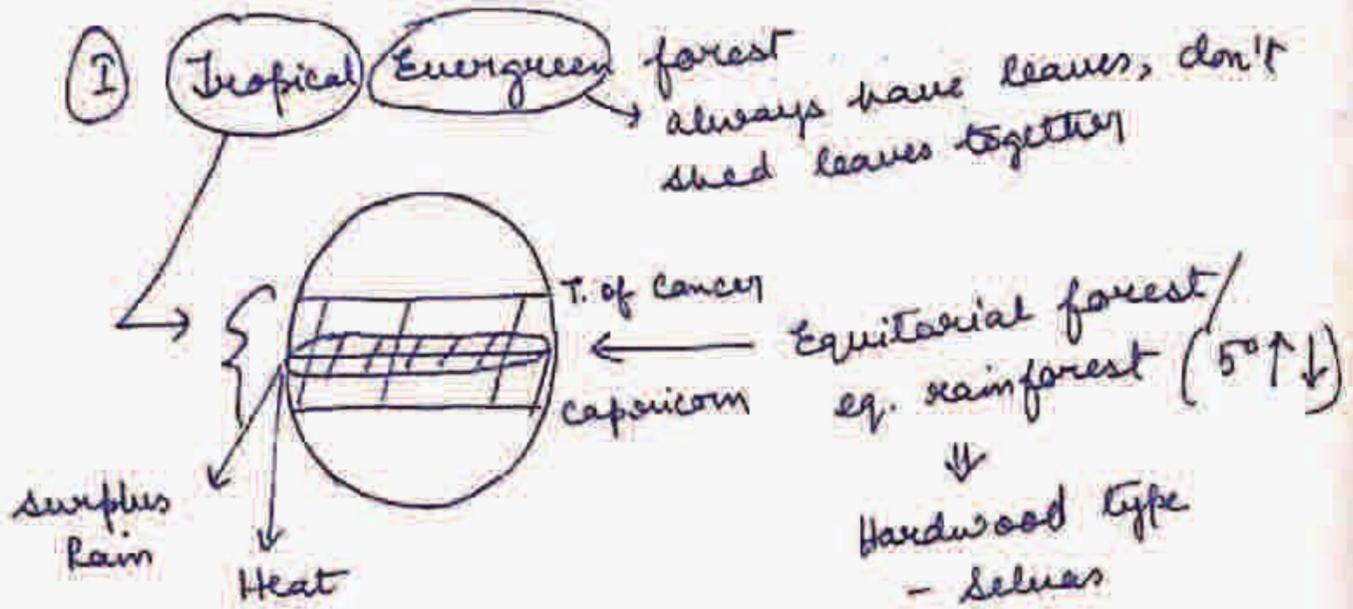
Dense forest - dense canopy.

- Old growth forest
- maximum density
- max. biodiversity
- Part of civilizational growth
- maintain ecological balance.
- light difficult to enter.

⇒ cutting trees → to compensate: Roadside tree plantation → no match for forest (doesn't support diversity)

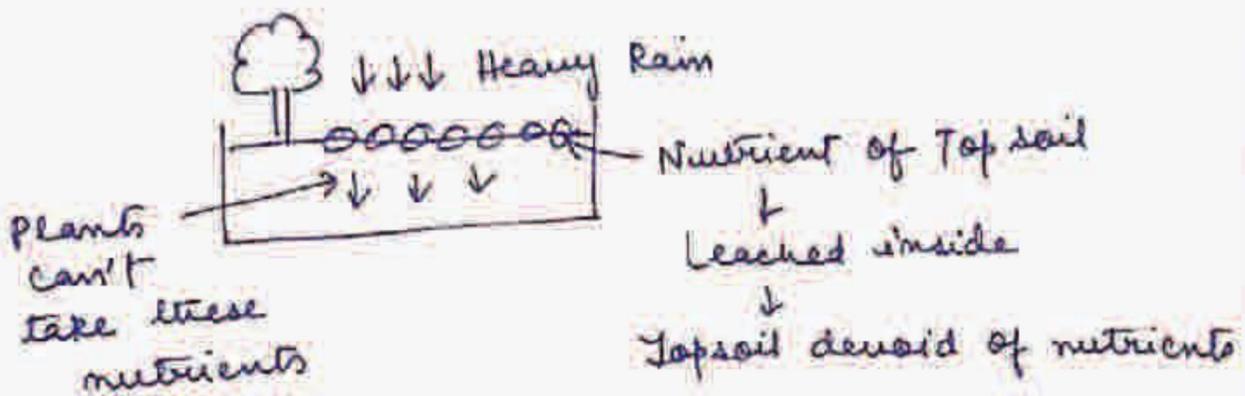


Forests



eg: Rosewood, ebony, mahogany etc.

→ soil - oxysols (depleted) → less nutrient content



→ support fauna

⇒ Monsoon forest in India → Hardwood (not called Salus)

(II) **Tropical deciduous forest:**

In t/w tropics

Wet season (don't shed leaves)

Dry season

shed leaves

cycle → Resembles our monsoon

3/4 mons Rain

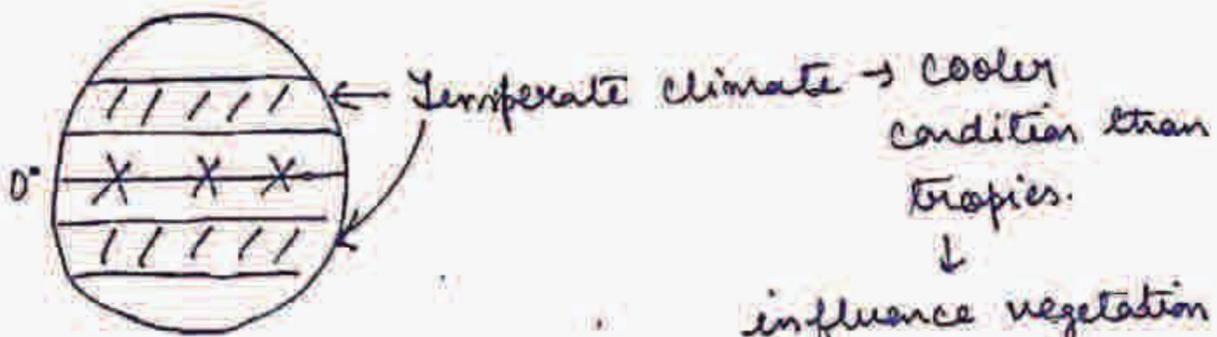
Dry

eg - sal, teak, fupil, neem etc

→ Hard wood forests here are not called selvas.  
 → furniture  
 → Transport  
 → Construction material

→ N. Australia: Monsoon / Retreating Monsoon.

III Temperate evergreen forest! — (coniferous)



eg: Both Hard/Soft woods — Oak, pine, eucalyptus.

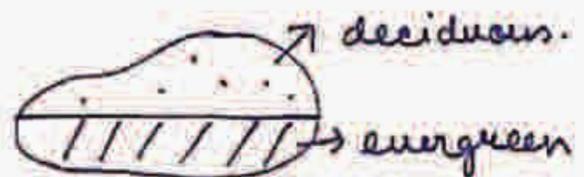
Places: SE USA, S. China, S.E. Brazil.

↓  
 influence vegetation  
 ↓  
 Temperate evergreen forest  
 continuous Rain (fronts responsible for rain) → Have leaves throughout the year

IV Temperate Deciduous Forest

↓ cooler climate  
 → Plants don't have leaves throughout season

↑ higher latitude → dry  
 → wet



Places: China, NZ, Chile, coastal region of W. Europe

→ Less dense canopy, light penetration.

eg: Trees — oak, ash, beech.  
 Animals — Deer, foxes, weasels  
 Birds — Pheasants, monkeys.



## (v) Mediterranean Vegetation

India: Cold/dry - winter  
Hot/wet - summer

↓  
Mediterranean → cold/wet - winter } Influences  
Hot/dry - summer. } natural  
vegetation

eg: figs, olives,  
grapes, citrus  
fruits.

Places: areas around Mediterranean  
sea in Europe, Africa  
and Asia.

also, in California, USA; SW Africa, SW S. America,  
SW Australia

→ Famous for wines eg. Champagne

→ also called Chaparral vegetation.

## (vi) Coniferous forest

eg. Pine, deodar, birch, chin

→ In general, C. trees are evergreen  
can also be called temperate evergreen

→ 50° - 70° N - Jaiga - Pristine / Untouched  
(no lumbering  
activities)

→ 'Need-greed unbalanced - exploitation of  
natural resources'

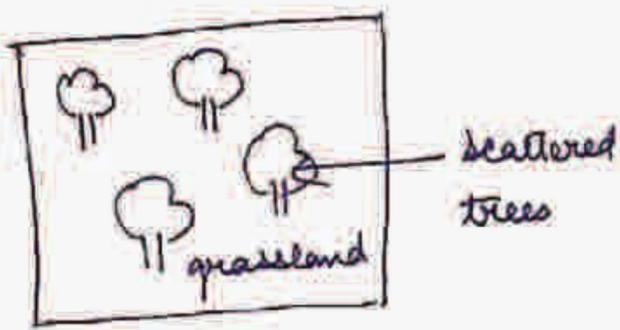
→  → Coniferous variety - India (Himalayan  
Region)  
(Upper-Middle)

'Altitude mimics latitude'



### Tropical grassland

- ① They are impure  
(There is scattering of trees over the grasses)

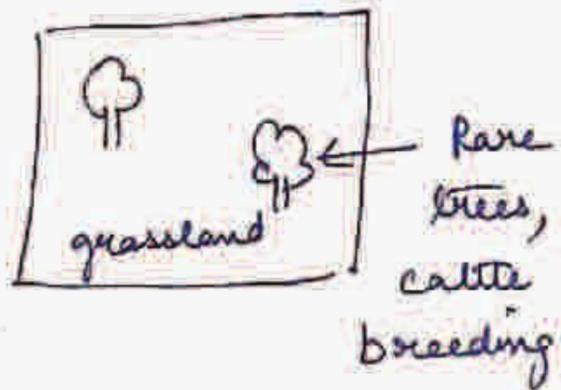


- ② grasses - taller, coarser, lacking nutrients.

- ③ eg: Savanna: Africa  
Llanos: Venezuela  
Campos: Brazil

### Temperate grassland

- ① They are pure/proper grasslands. (large expanse of grasses almost without trees)

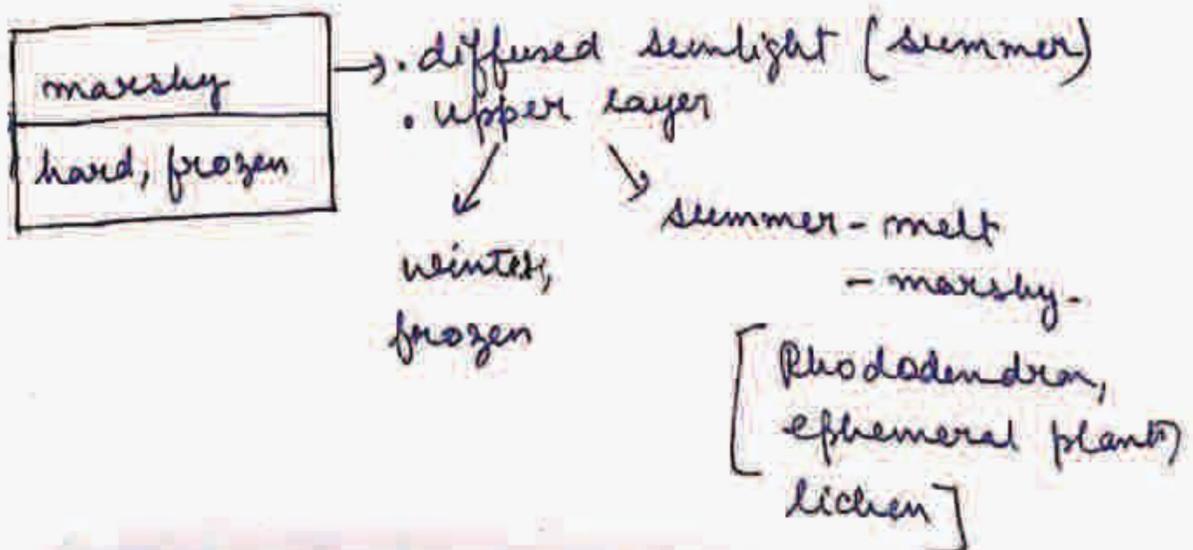


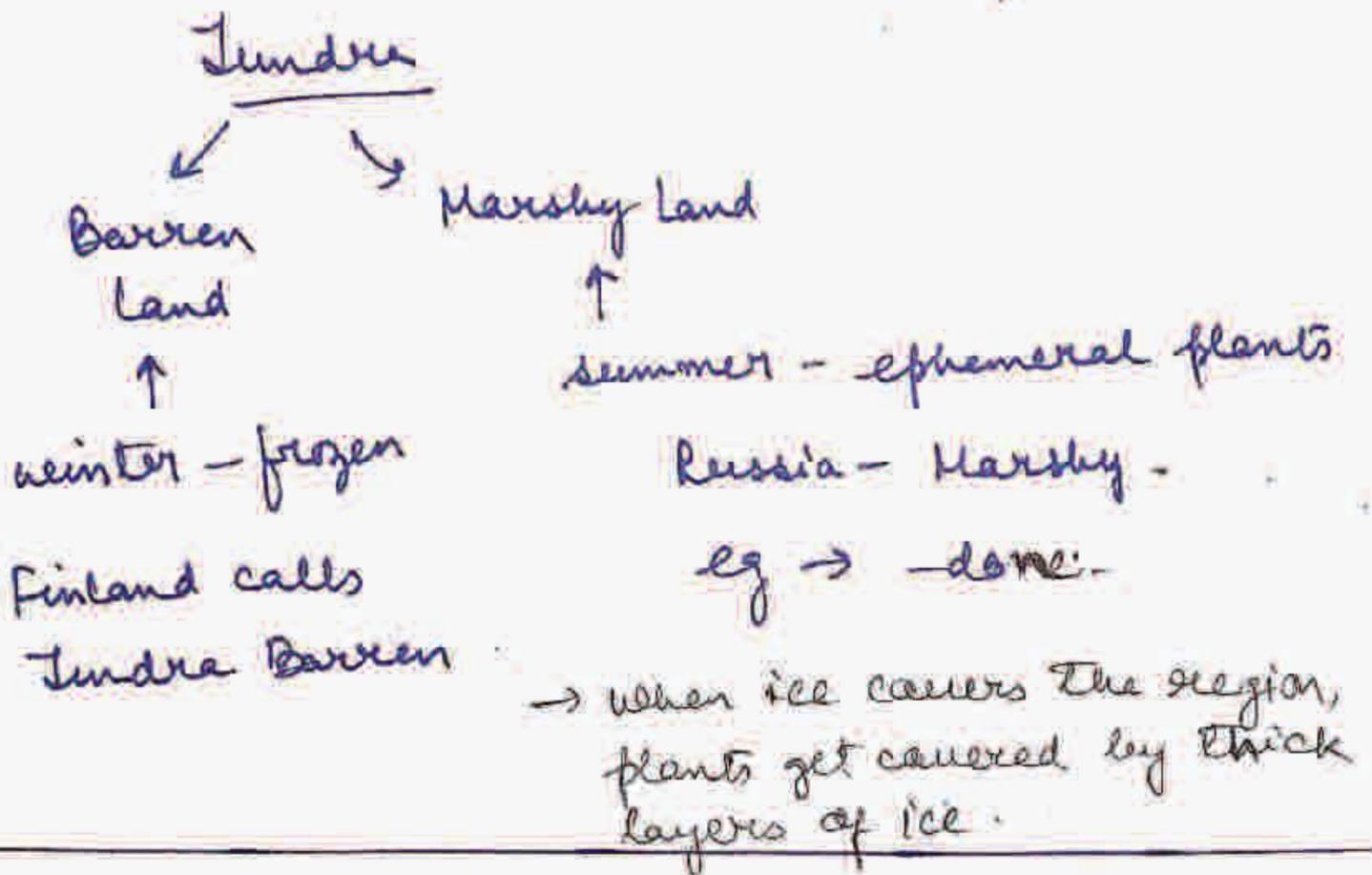
- ② shorter, softer, very nutritious.

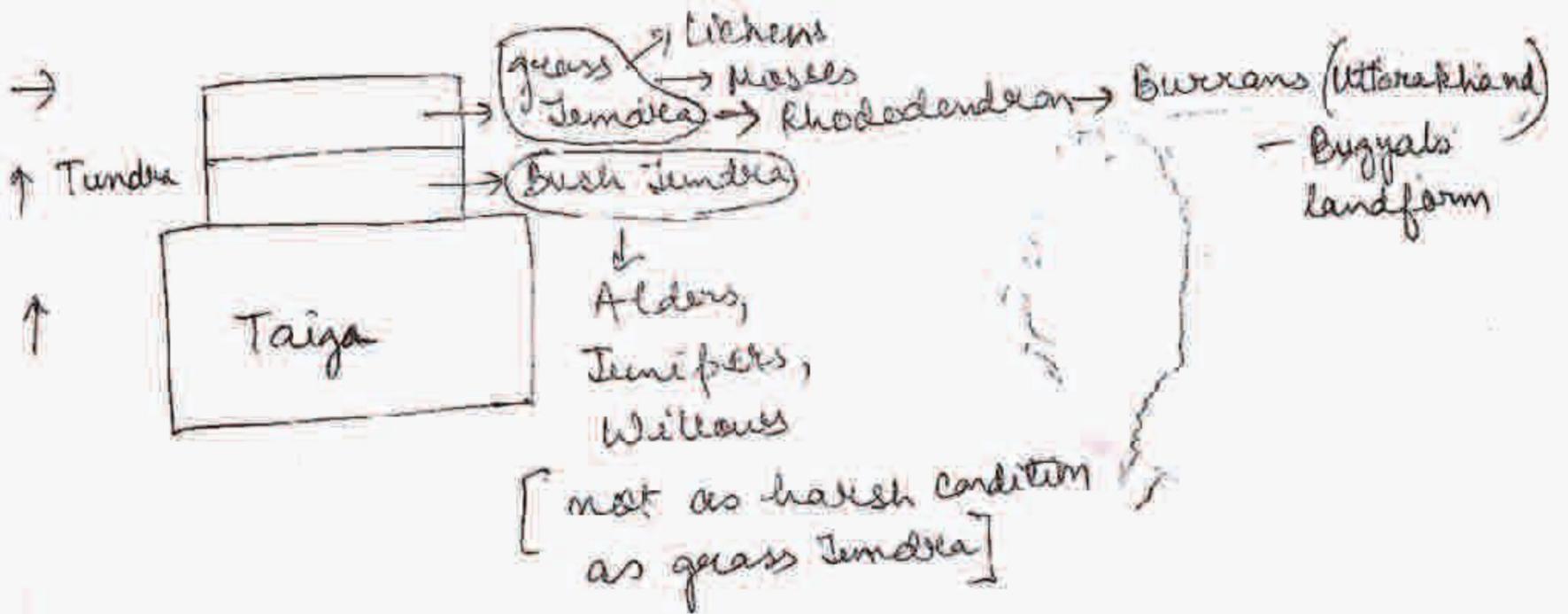
- ③ eg: Prairies: N. America  
Steppes: Russia  
Pampas: Argentina  
Downs: Australia  
Velds: S. Africa  
Puszta: Hungary.

(vii) Thorny Bushes: Desert Regions.

(ix) Tundra







### Human Encroachment - Settlement, Transport and Communication - Ch - 7

① Past - cooking (x)

Agriculture (x) → Hunter

→ gatherer

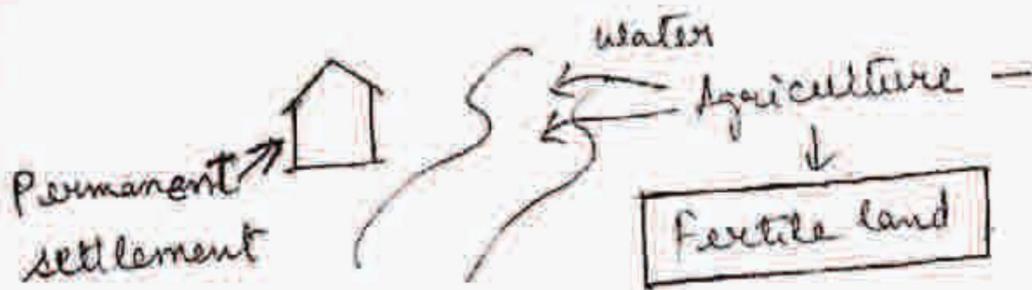
→ wanderer

→ Shelter

→ Food

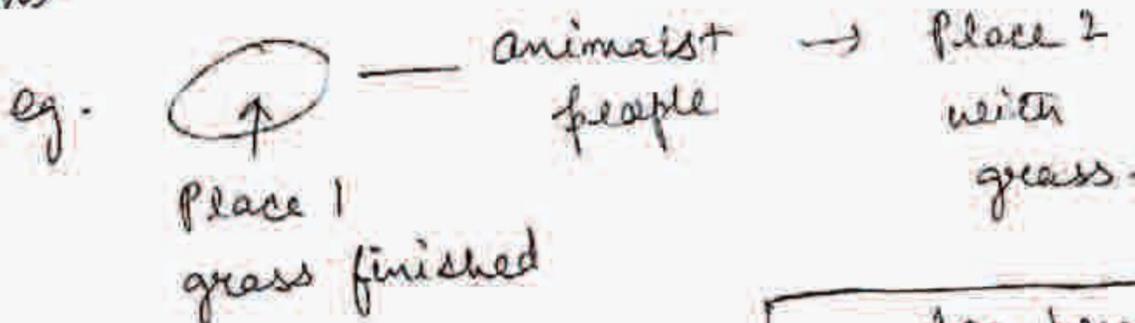
→ Hunting.

↓  
Concept stabilized



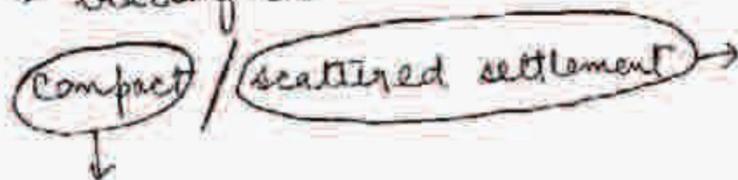
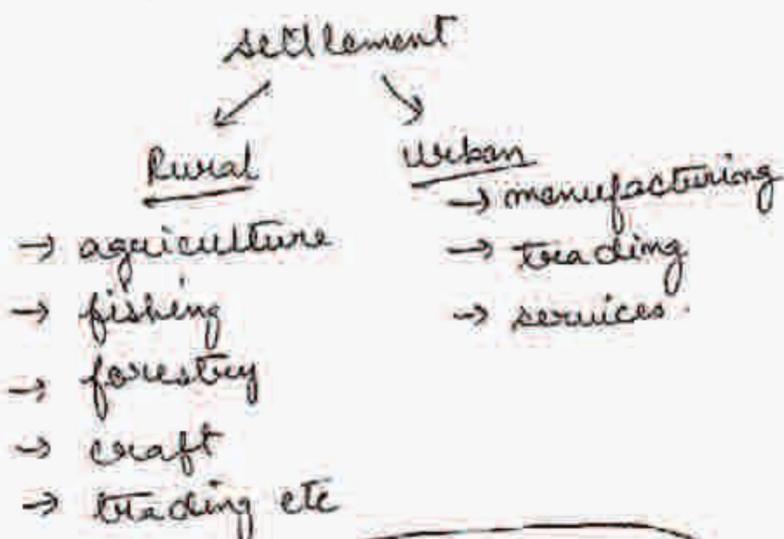
Temporary → Permanent settlement  
(Ancient civilization)

② Transhumance: seasonal movement of people.  
- people who rear animals move in search of new pastures according to change in seasons.



dog breed  
- shepherd breed  
(German shepherd)

③

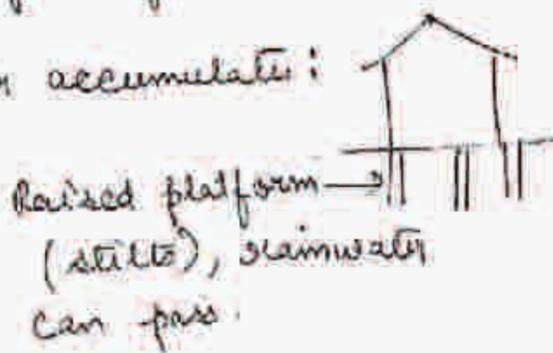


- Hilly areas
- Inhospitable climate
- Less population -

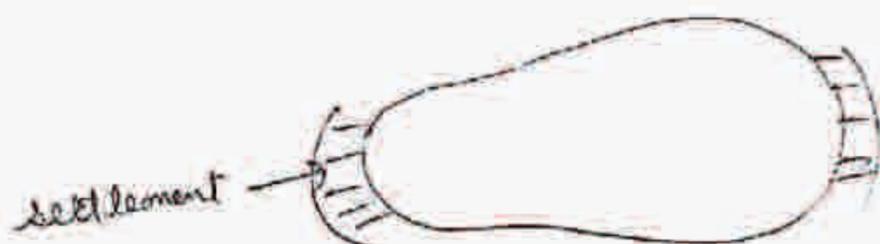
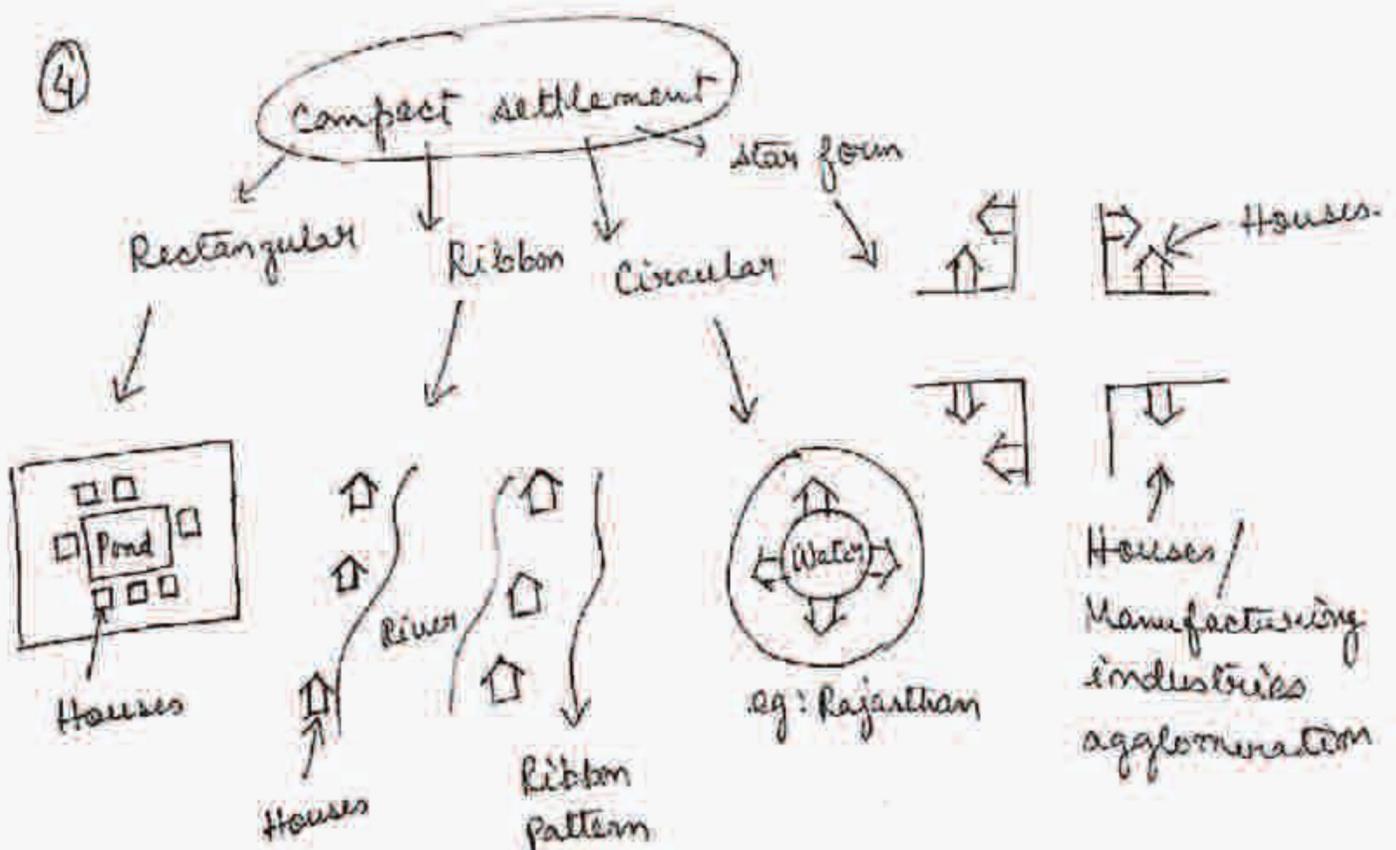
- Plain area
- Hospitable climate

Closely Packed Home

- Conflicting / competing demand → pressure on land.
- Places with heavy rainfall - slanting roofs
- Rainy areas: water accumulates:



④





## Transport

① Road → Metalled  
→ Unmetalled

① Roadways → 75% goods transport (inter state movements)  
→ 90% perishables (milk, curd, fruits etc)  
↓  
Important for economy.

### Issues:

- no constant speed, no dedicated corridors
  - Accidental prone
  - no 24 hrs movement
  - diesel dependence high  
↳ logistics cost (↑)  
₹ 5-7/km
  - env. issue / pollution.
- China: logistics cost (↓)  
→ use sea transport  
MRF (↓)

\* Govt. must try to rationalize logistic cost.

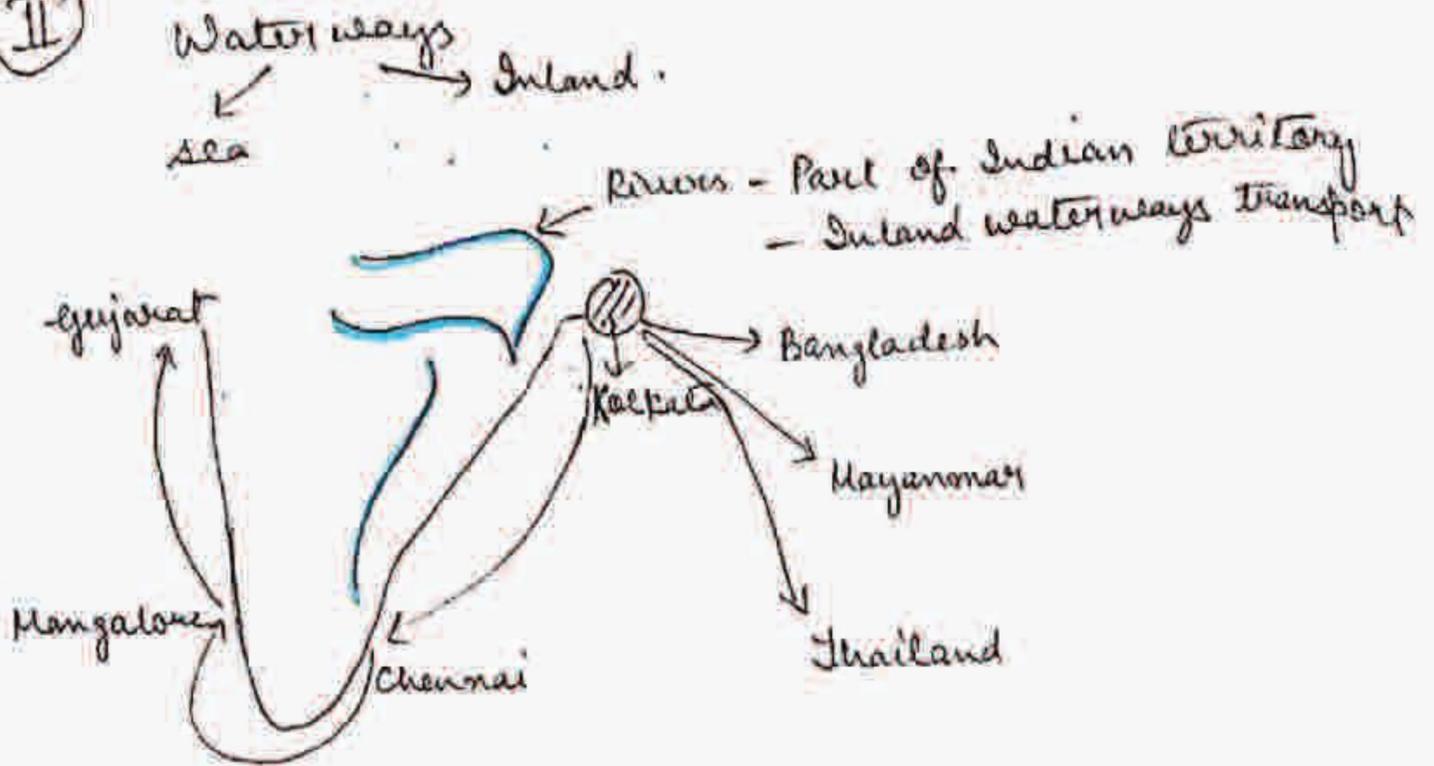
② Railways logistics cost ₹ 1/km

### Issues

- same track for passenger and freight vehicles → delay / decrease in speed.
- No operation dedicated to freight train / corridors
- Charging high tariff for freight goods to compensate for low passenger tariff (loss for economy in long term)

Indian Railway network - vast, developed, largest

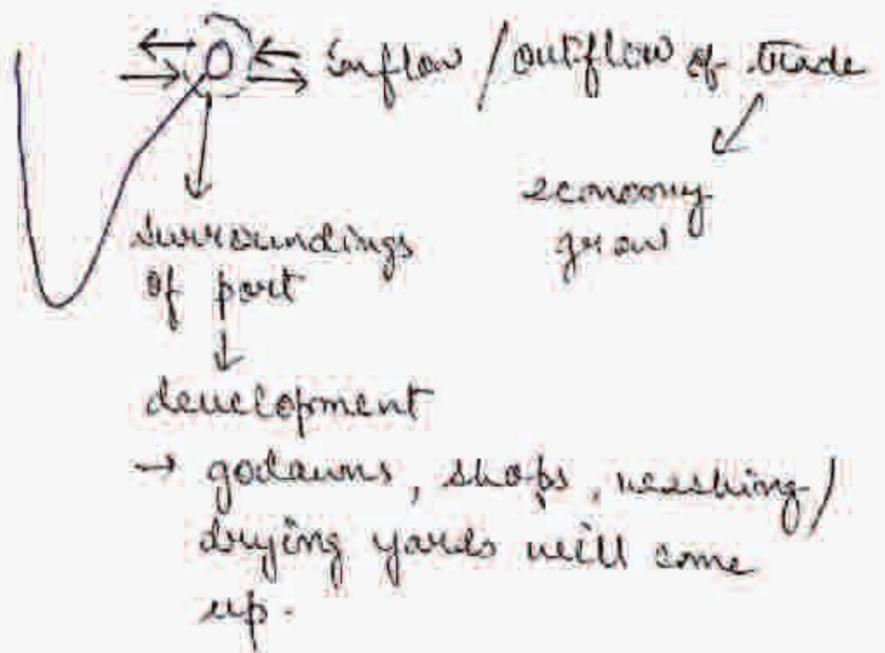
II



Sea: Ports (gateways of development)

Issues

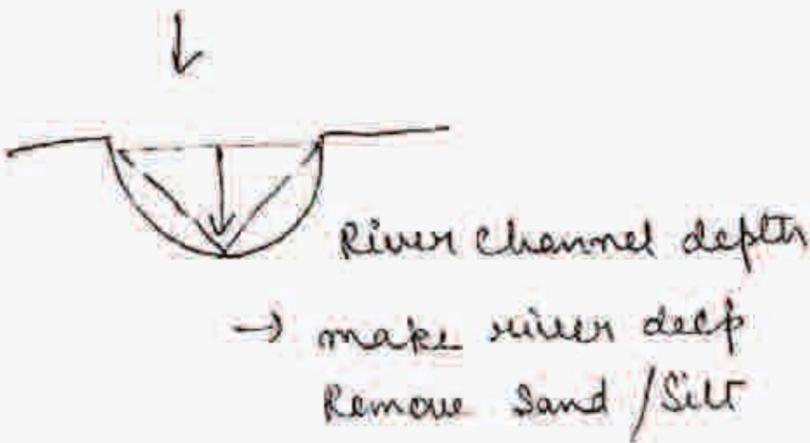
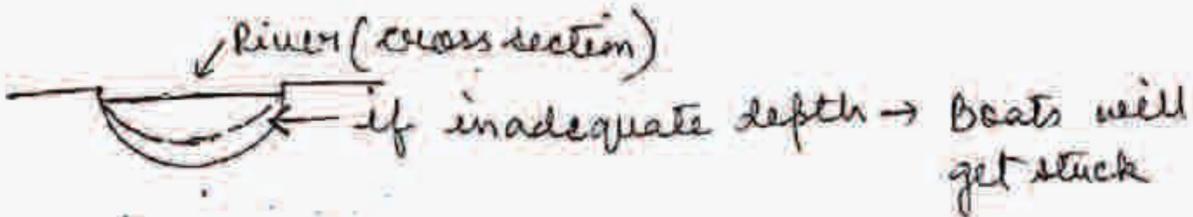
- lack of good ports to dock heavy vessels
- Turnaround time is very high  
[Takes time to unload goods/ clear customs etc]  
↓  
not good maintenance.
- Ports less lucrative  
(ships take time to come and go)
- not cost effective, costly affair  
(no goods in return journey)



### Inland transport

↓  
Issues:

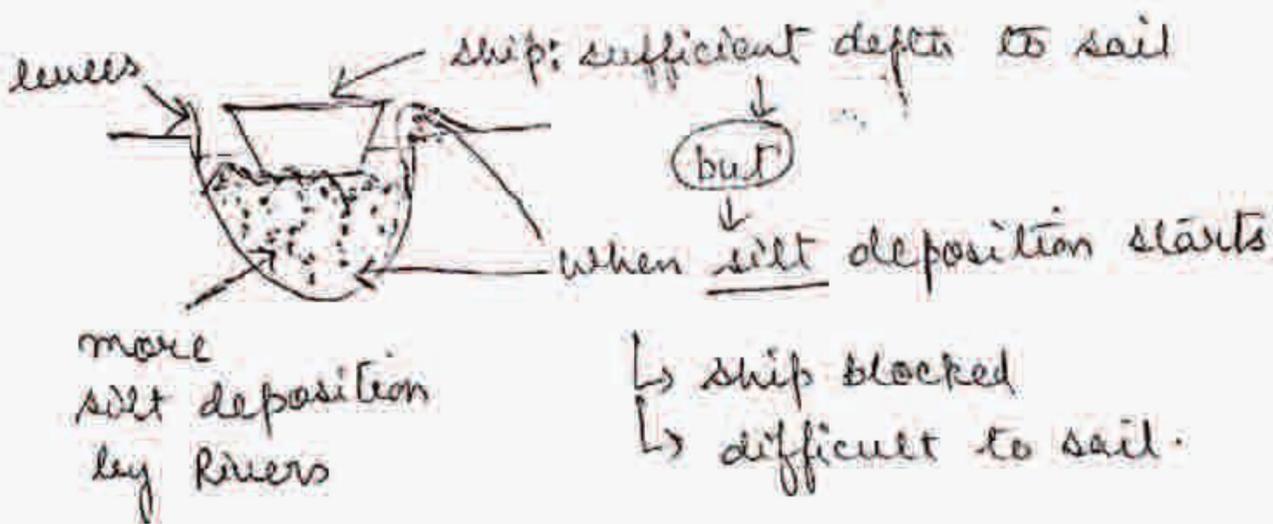
① Inadequate depth:



② Low transport speed.

③ Night navigation issue [No proper lighthouse]

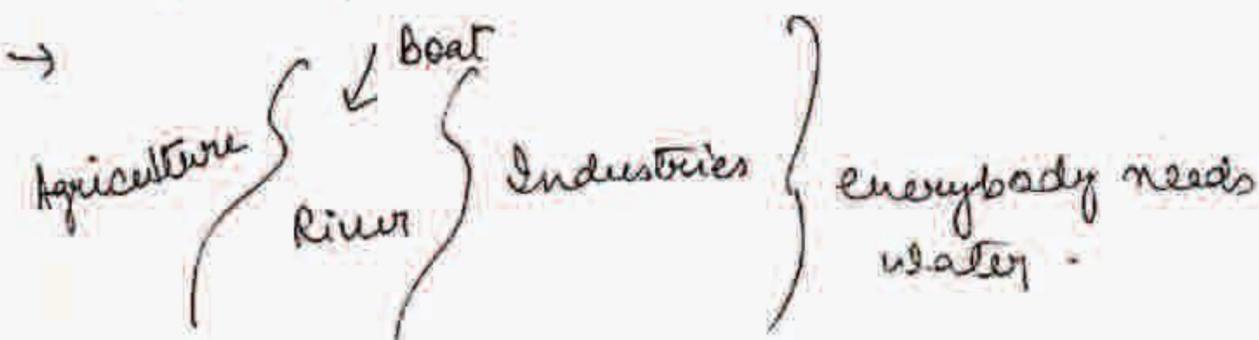
④ High siltation issue.



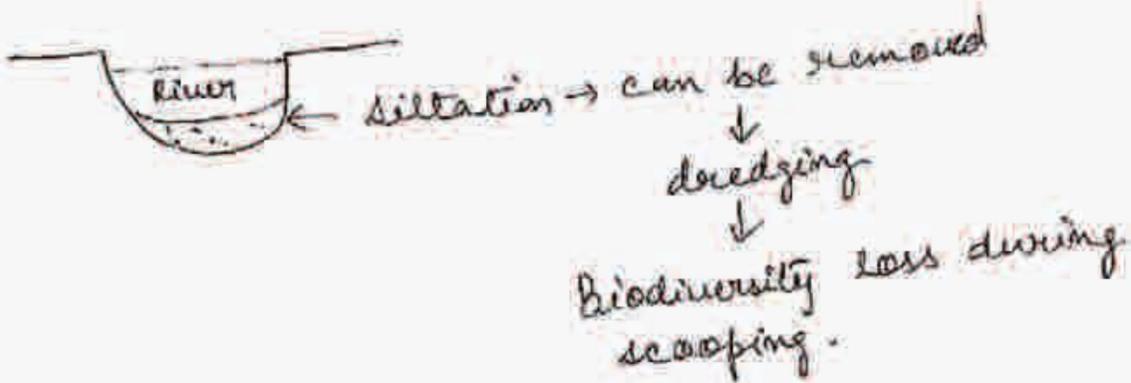
⑤ Capital intensive infrastructure

⑥ Seasonal availability of water

⑦ Conflicting / competing demand for water



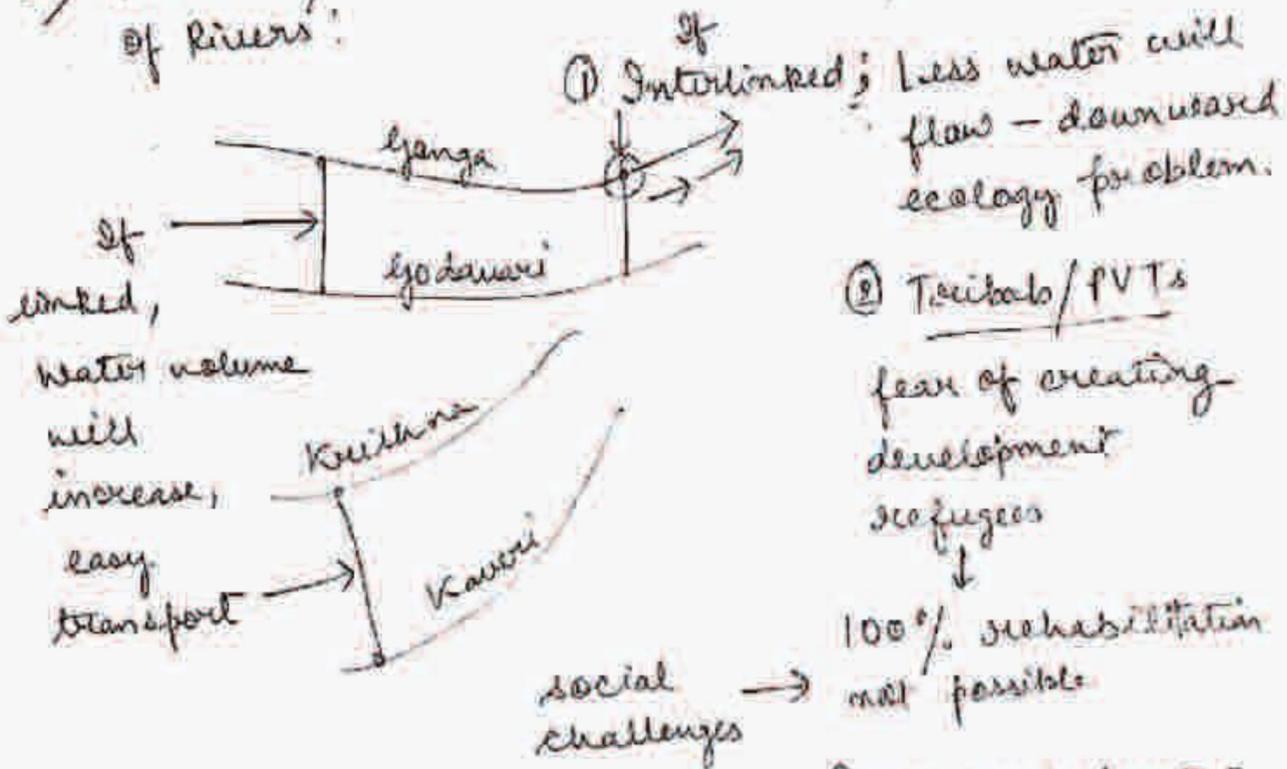
⑧ Environmental issue



⑨ Domestic MRO (X)  
all outsource it.

⑩ lack of expertise in ship building industry.

⇒ Hurdles / Challenges associated with interlinking of Rivers:



② Tribals/PVTs  
fear of creating development refugees

↓  
100% rehabilitation not possible

③ People's protest to build canals.

⑨ Airways & Tourism & Economy.

Issues:

- High tariff
- Low coverage in tier 2/3 cities
  - ↳ UDAN scheme
  - ↓
  - town (Boost tourism) Domestic / Domestic sector
- Domestic MRO (X)
- ↳ less importance to air cargo

→ 5/20 rule!

↓  
5 yrs of experience (owner) → of domestic flights

↓  
flight nos should reach 20. → only then one can apply for international flight

\* Illogical Rule

⇒ Communication:

Important ports:

Hambantota - Sri Lanka

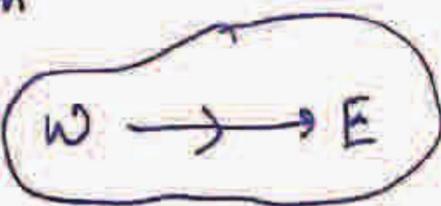
Chabahar - Iran

Gwadar - Pakistan

Dhaka, Kolkata, Tokyo, Osaka, Hong Kong, Istanbul, London, Stockholm, Boston etc.

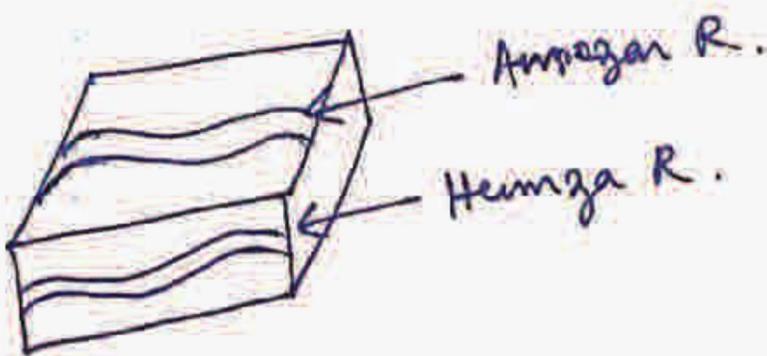
Human, Env Interactions,  
Ch: 8 - Tropical/Sub-Tropical Region

① Amazon Basin

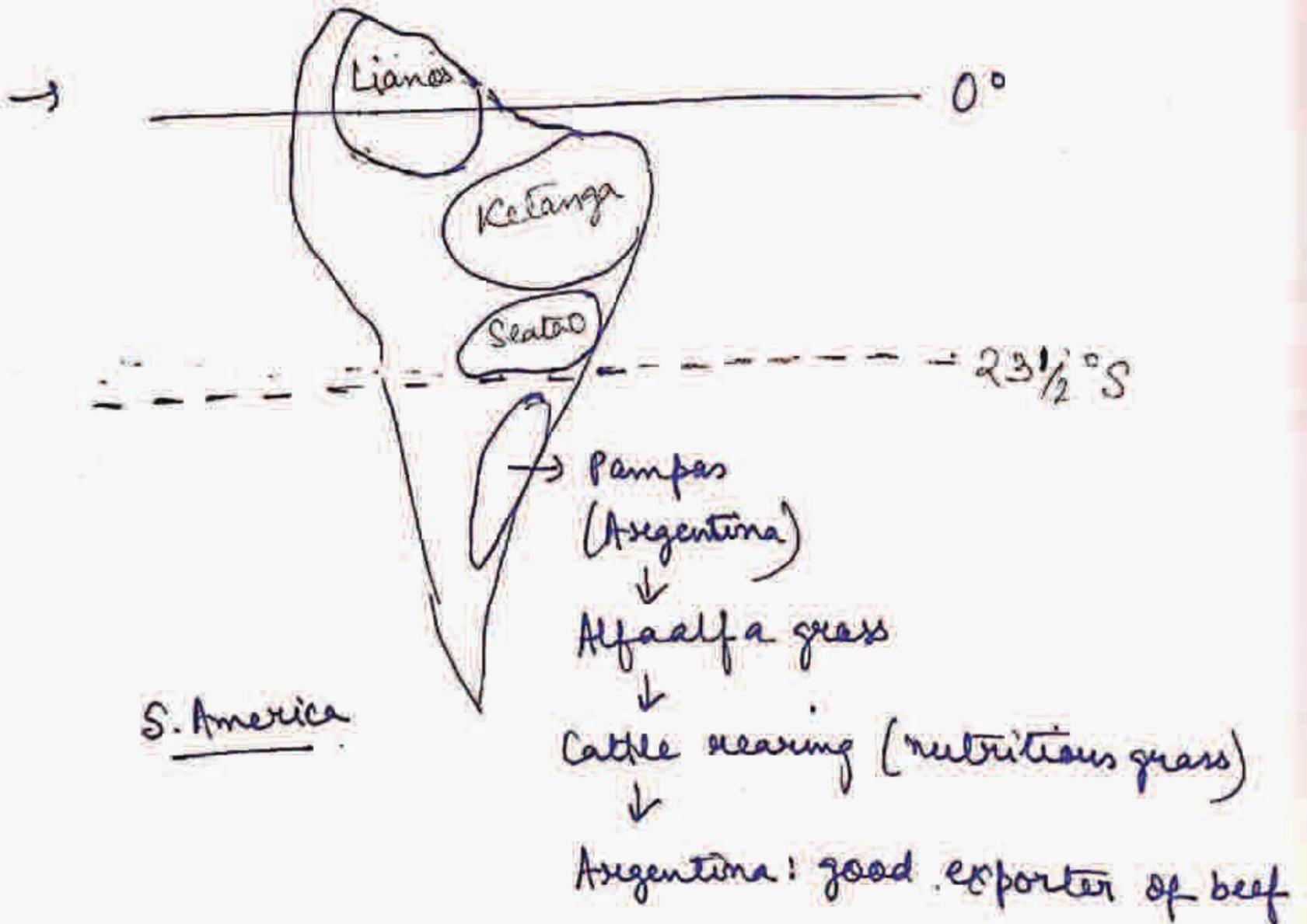
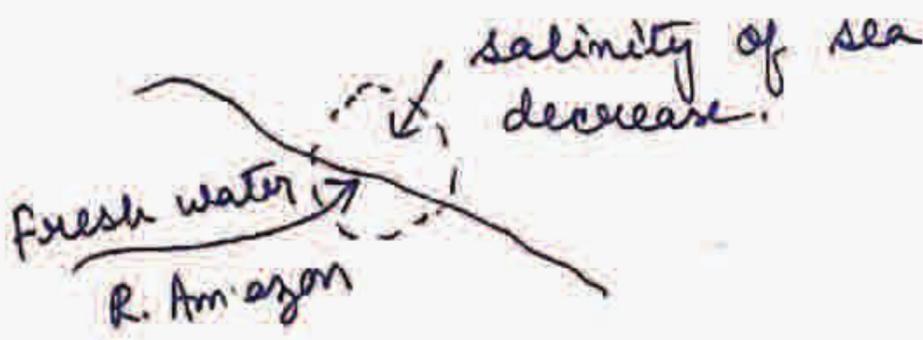
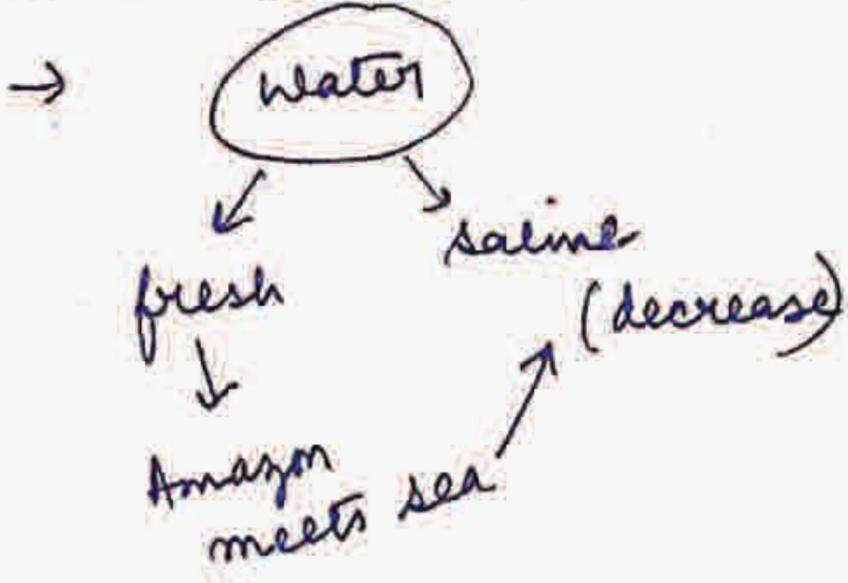
① Amazon: 

Amazon River Basin of Amazon R.

Humza R. — It is believed that this river flows below the ground in Amazon Basin

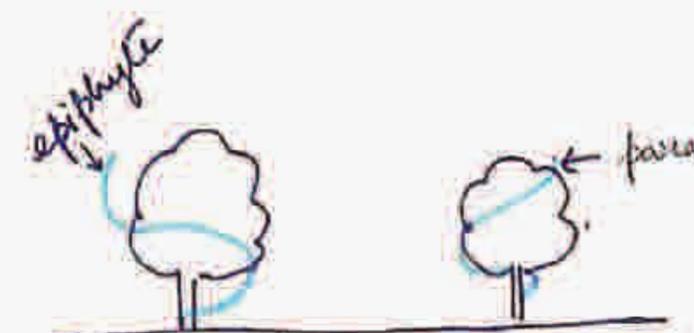


→ Amazon - tropical



→ Climate: Hot, humid,  
Rains almost everyday

→ Vegetation → Temperature →  shade tolerant species.  
→ Rainfall → dense canopy  
→ dark, moist ground  
eg: epiphyte: bromeliads

→ 

① Takes help of tree to get sunlight  
② Nutrients (X)

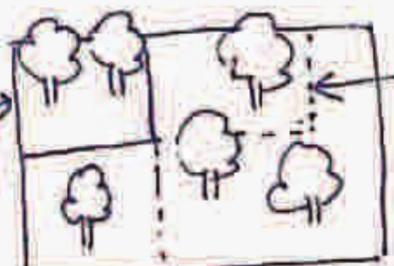
① Plants crawl over these trees  
→ takes nutrients.

→ species: Rich in fauna:  
Birds: toucans, Humming Bird etc  
Animals: monkeys, sloths, tapirs etc.  
- Piranha fish.

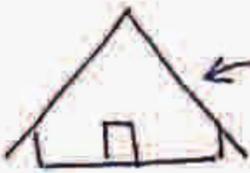
→ People: Men - Hunting, fishing  
Women - agriculture

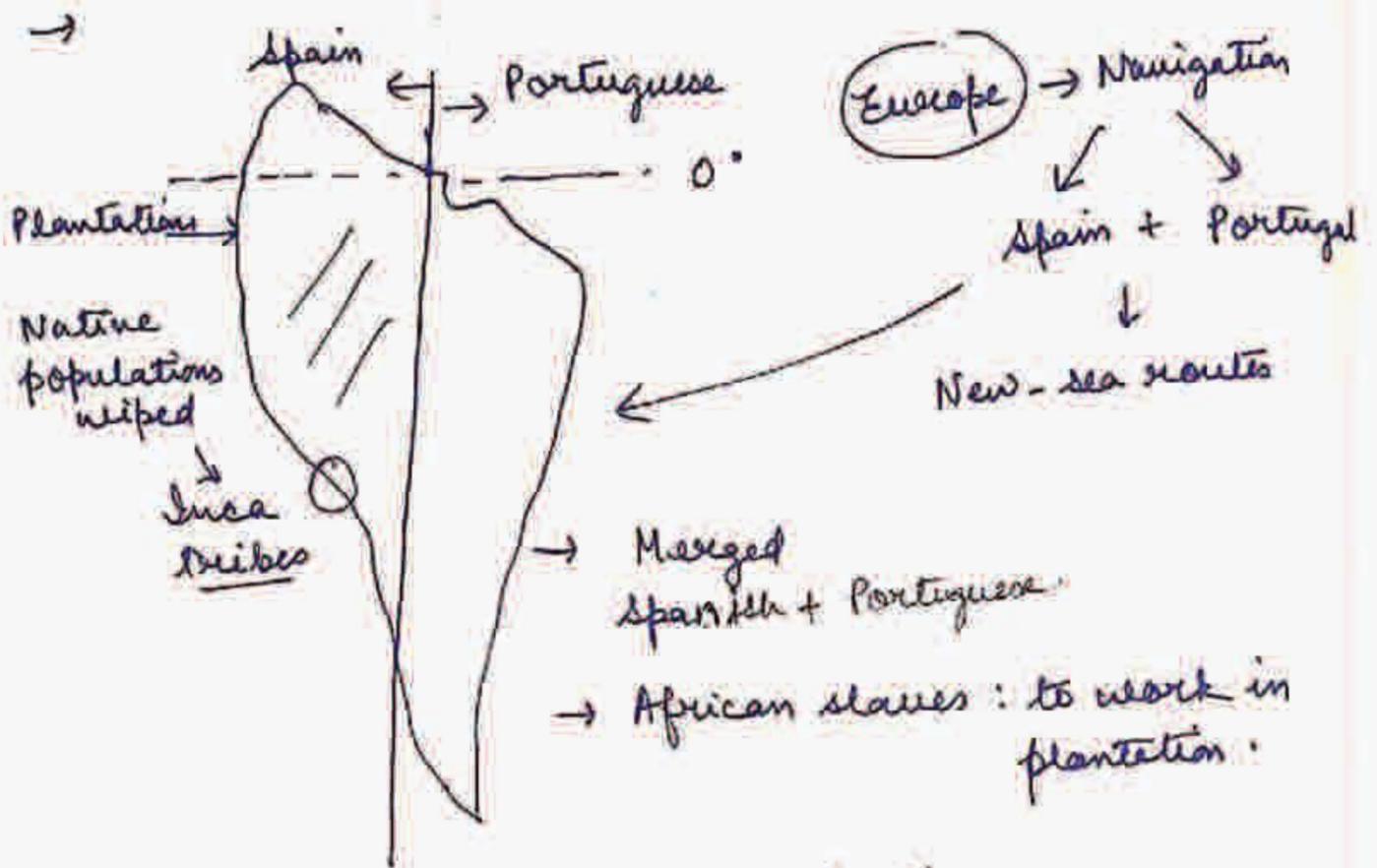
Crops grown - tapioca, pineapples, sweet potato.

→ take a particular part of soil  
↓  
burn  
↓  
ash  
↓  
add organic component to soil  
↓  
nutrients → fertile land → cultivate

 similar patch of land cut.

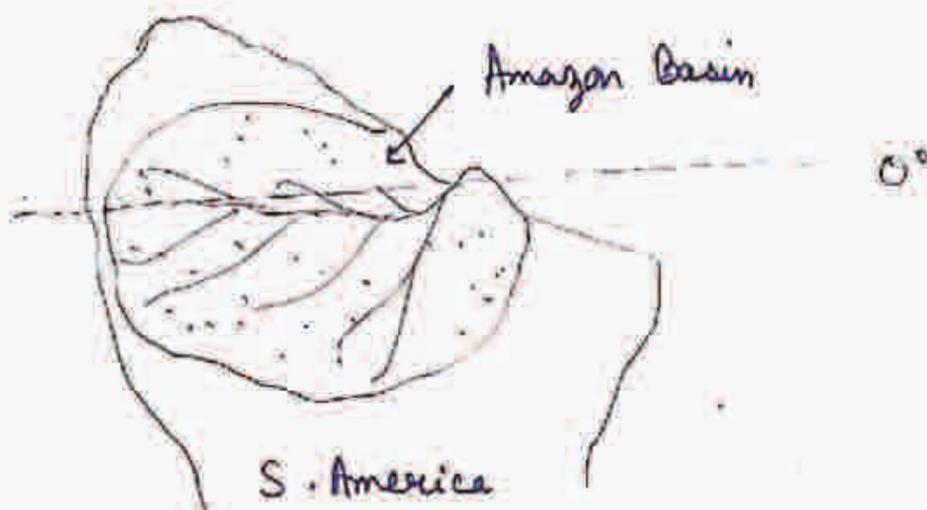
Slash and Burn Agriculture

→ House :  ← steeply slanting roof  
- Maloca



- Mestizos: Europe + local people
- Mulattos: Europe + African
- Zambo: Indian + African

Native population were wiped out by Europeans and got merged.

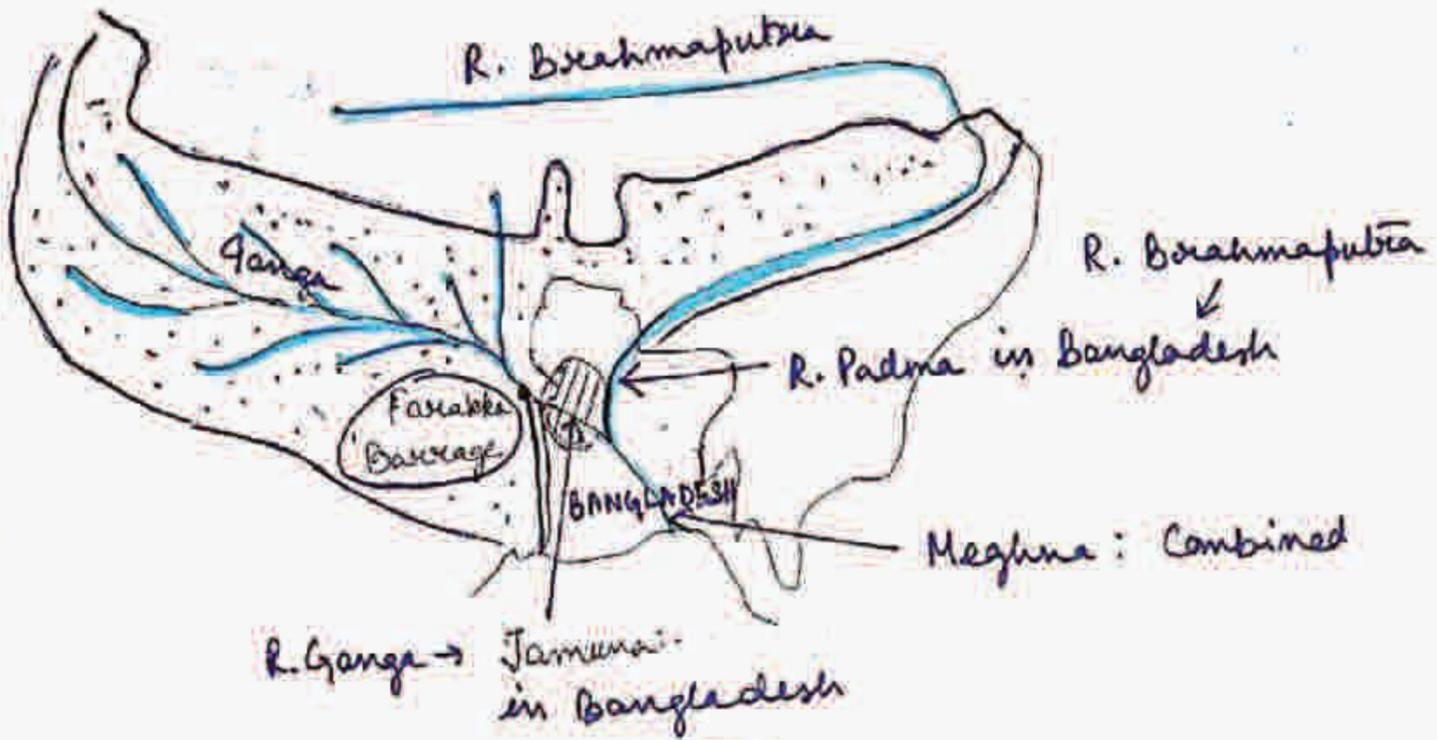


People:

→ Yanomami: largest relatively isolated tribe in S. America.

live in → Rainforests, mountains of N. Brazil, S. Venezuela

① Ganga - Brahmaputra Basin



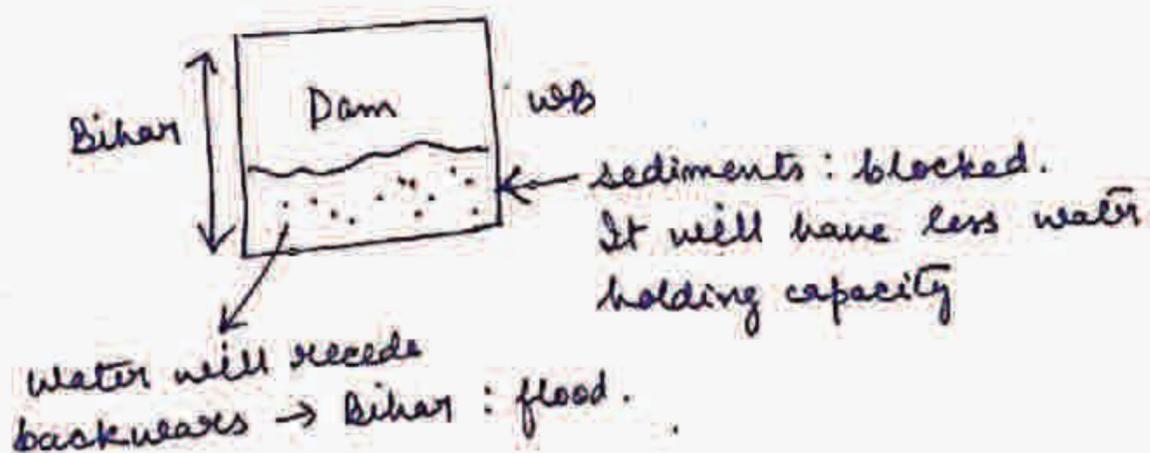
BOB

Farakka Barrage: Used to direct stream towards Hooghly Port (Kolkata) - divert water from R. Ganga.  
↓  
Make Kolkata Port feasible (increase volume of water)

Objection ⇒ ① Bangladesh.  
→ demanding water to be divided in 50:50 ratio.

F. Barrage → Domestic  
→ International issue.

⇒ ② Bihar: sediments start depositing.



→ Population Density:

Top 5

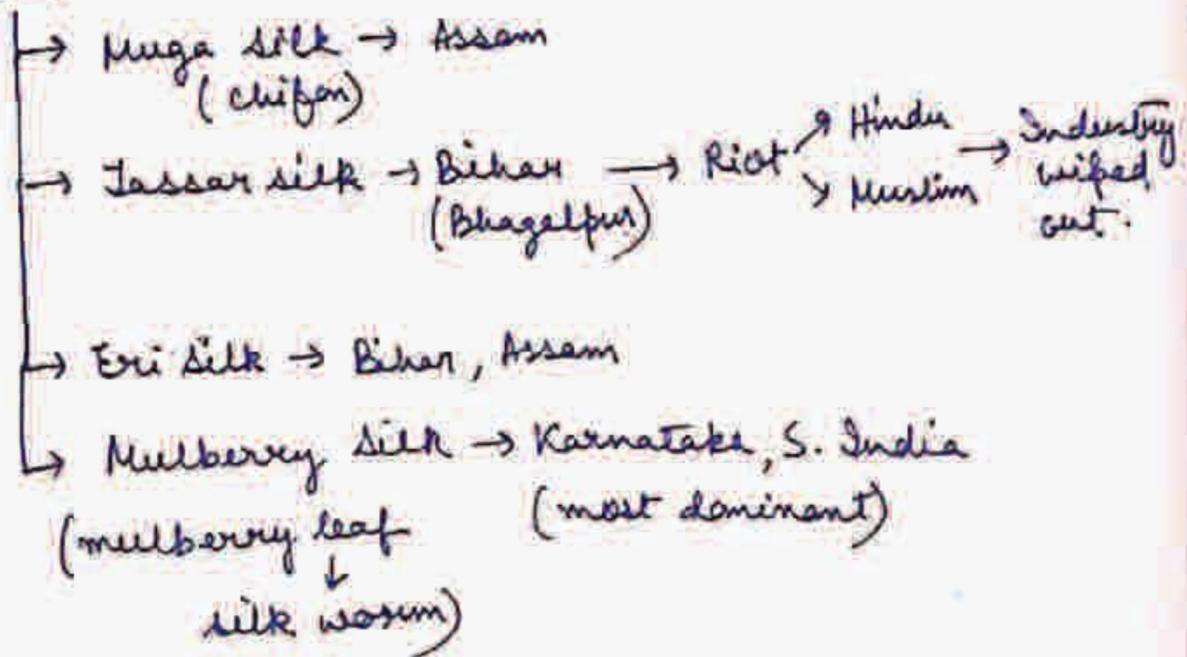
Bottom 5

→ People: occupation (main) → Flat land, fertile  
 ↓  
 agriculture  
 eg. paddy, jute, sugarcane, wheat etc.

→ Bihar - sugar mills

- Jute - water intensive during processing.
- Tea cultivation: WB, Assam

→ silk:



→ N-E India: Bamboo craft is focussed on.

⇒ Blind dolphin

→ Vikramshila Observatory → planning to make dolphin observatory in Bihar

→ R. K Sinha: Dolphin Man of India

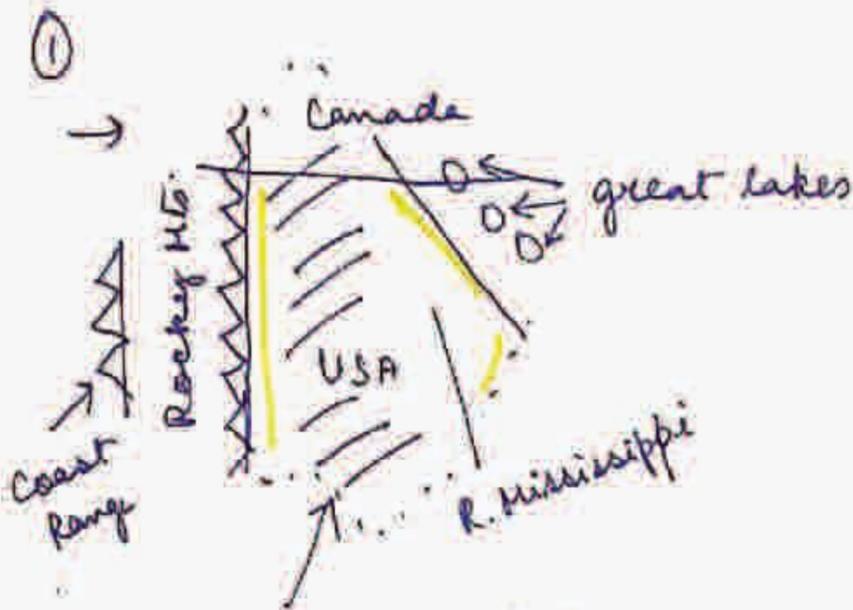
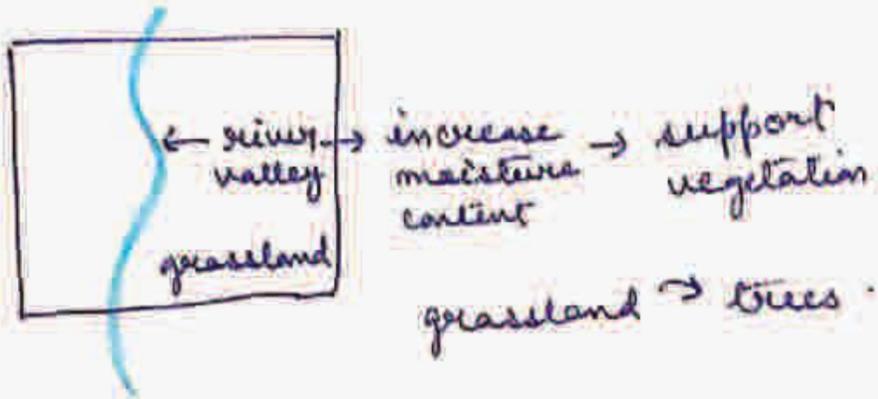
→ Dolphin - Indicator species

- Indicates health of aquatic system
- Dolphin population (↓) → Degradation

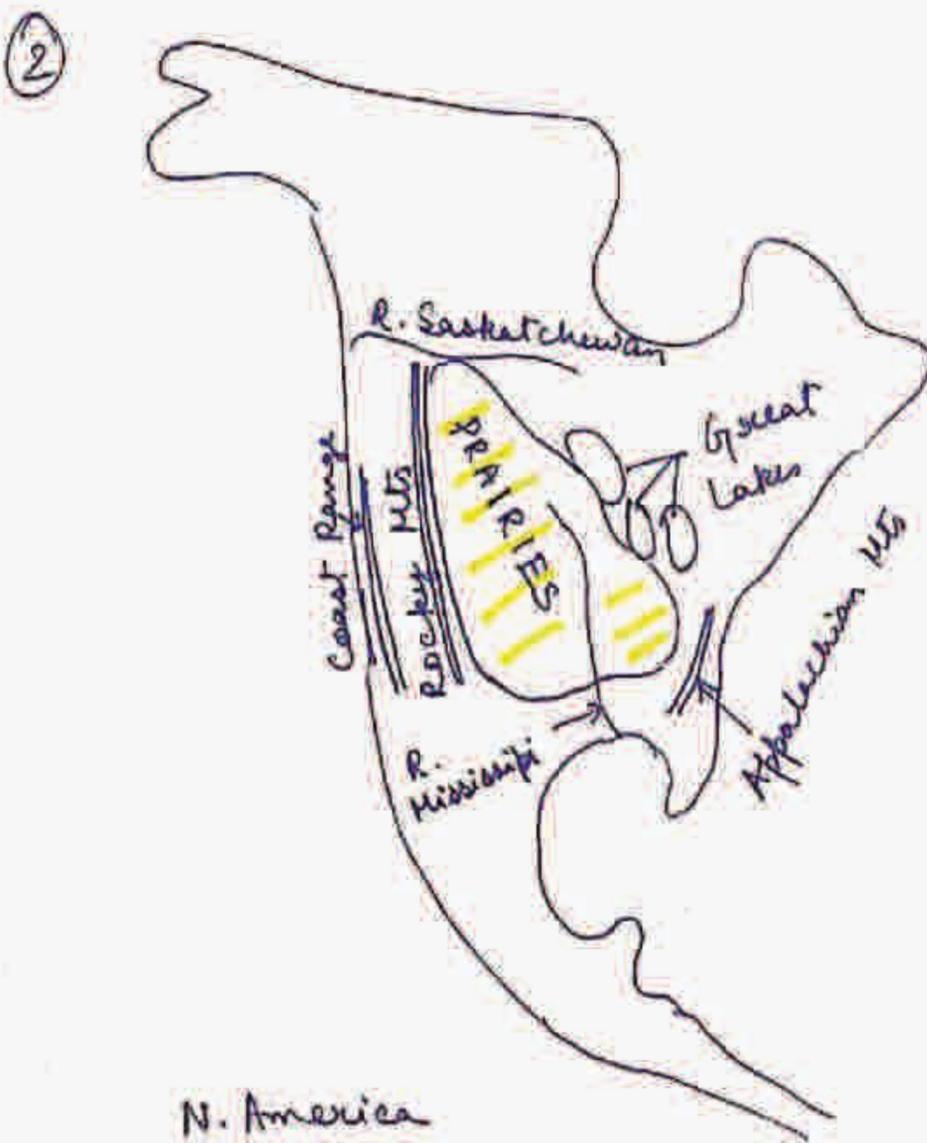


Ch: 9 : Life in the Temperate Grassland

① Prairies: temperate grasslands of N. America

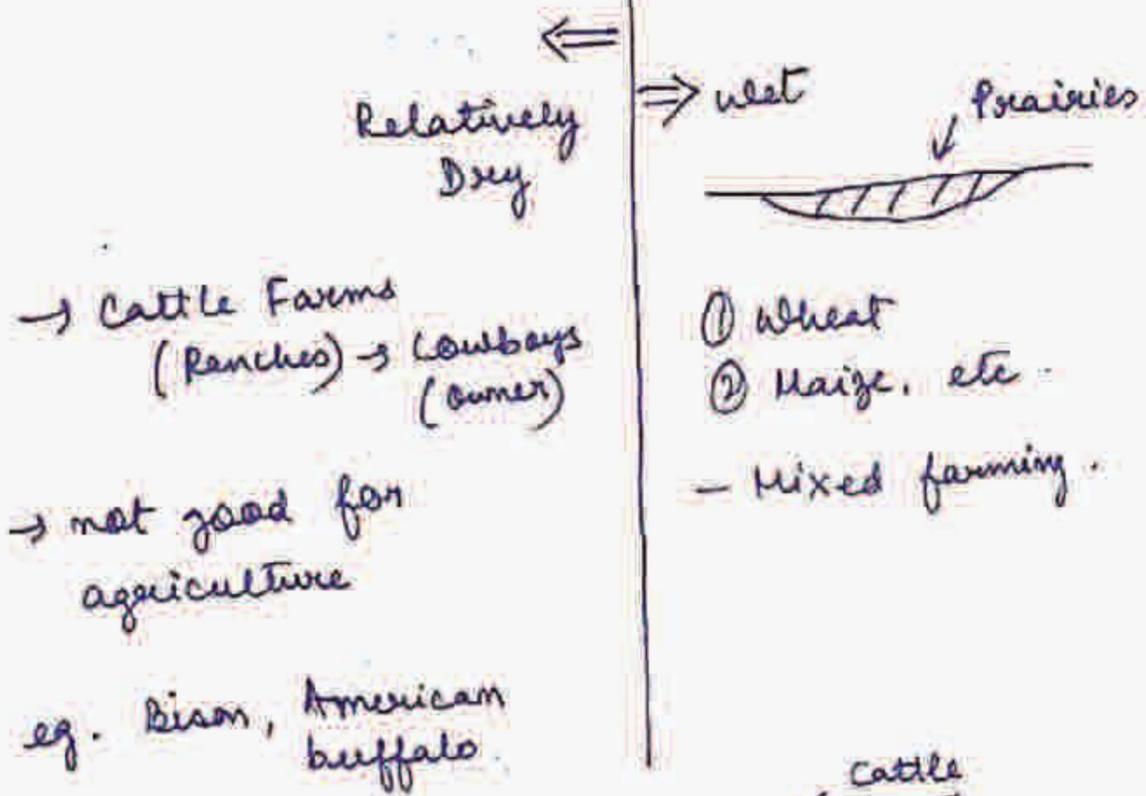
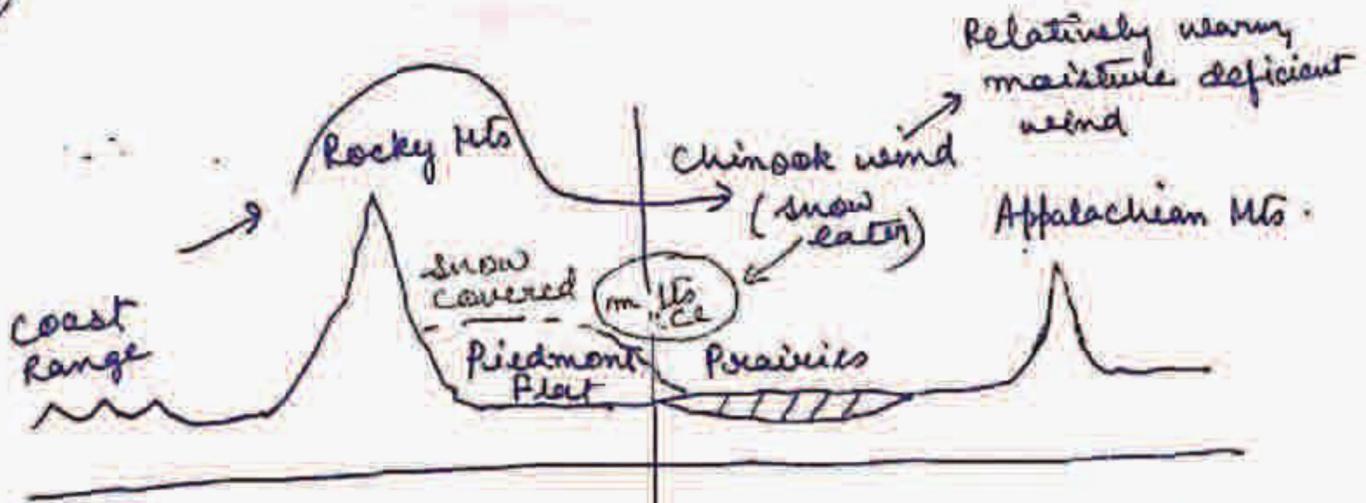


Prairies - Influence of R. Mississippi



N. America

3



→ Russia (steppes)  
↳ 'wheat' - dominant  
↳ 'Bread basket of the world'  
→ different from Prairies of N. America

→ Prairies → Trees: Willow, Alders, Poplars  
also in India  
↓  
Farm forestry  
↳ Matches, Wooden box of fruit, Plywood

↳ Crops  
→ Maize  
→ potato  
→ soybean  
→ cotton

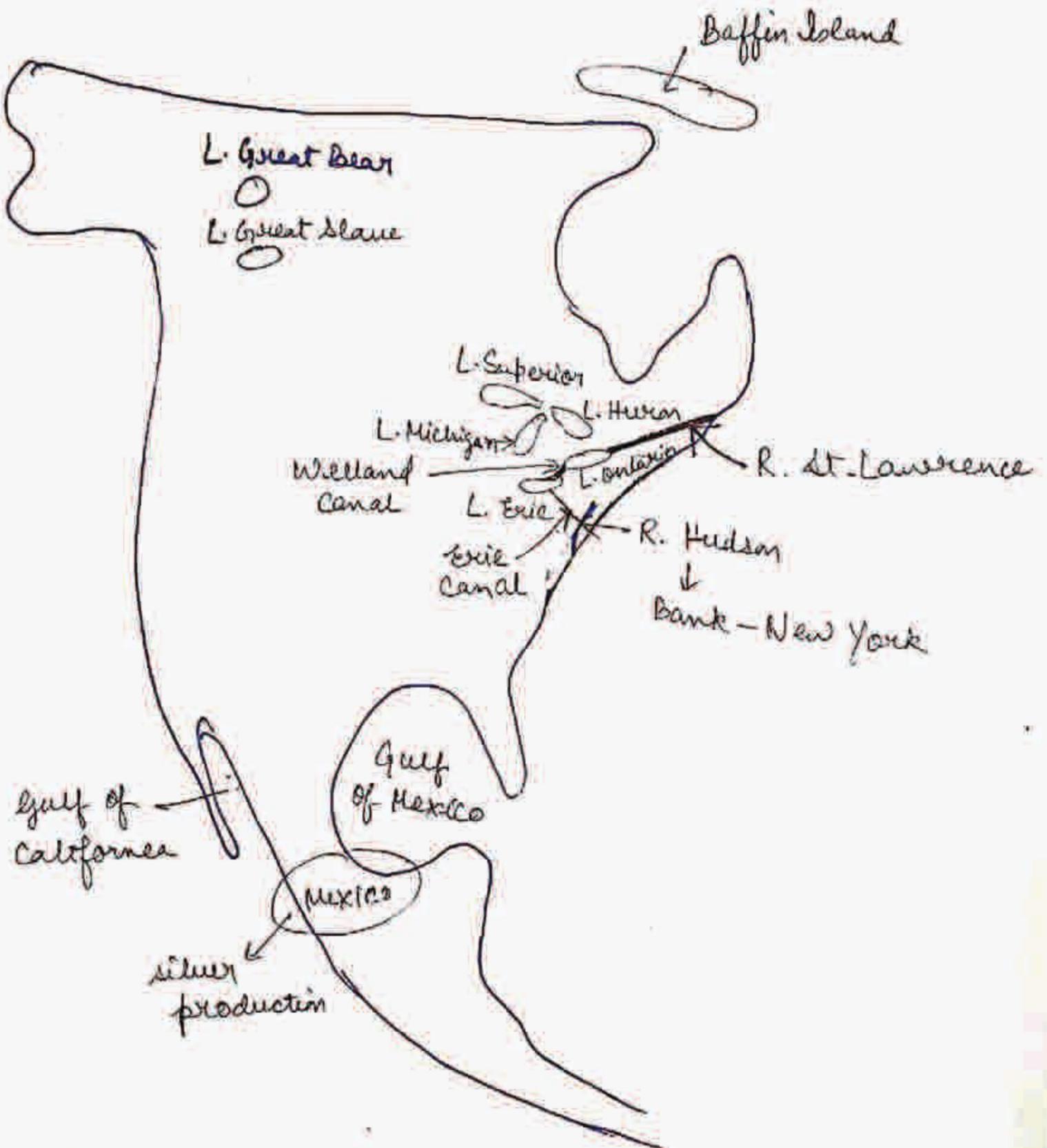
⇒ Climate: Continental type (extreme climate)  
- no moderate climate.



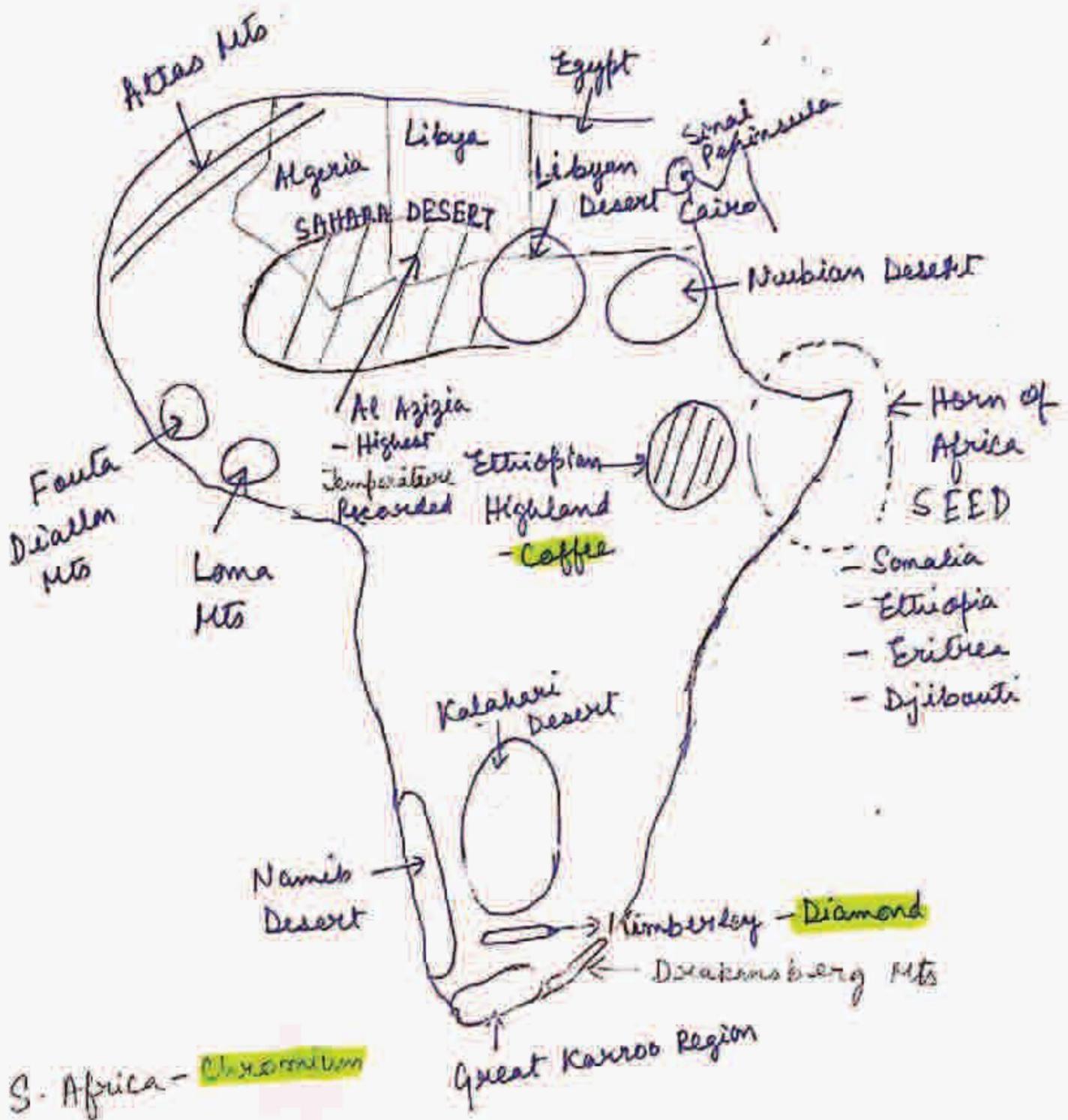
→ People: Hardworking  
harnessed technology  
• Mechanized form of agriculture as flats  
are vast.

Other industries: Dairy farming.  
Iron Ore (Canada - Near  
L. Superior)

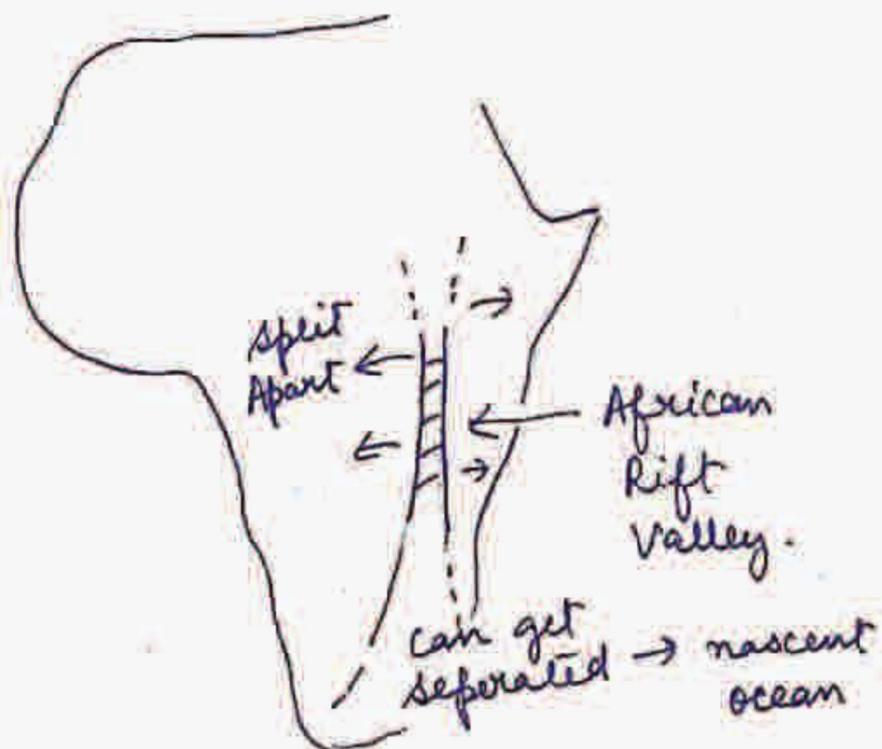
## ④ Map of N. America



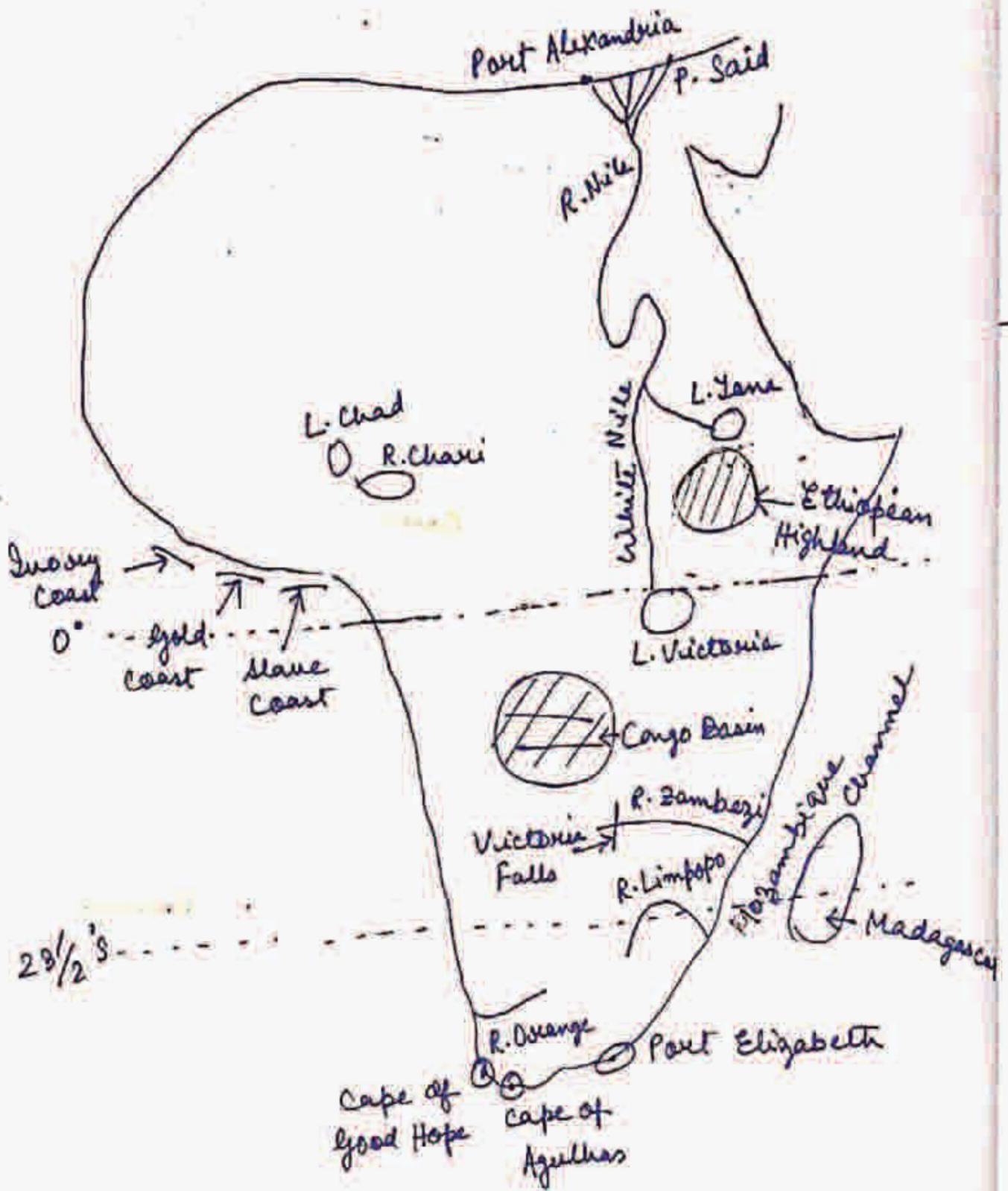
### Map of Africa



### Deserts, Mts, Highland, Peninsula



Africa - 'Dark Continent'



Rivers, Coasts, Basins, Capes, Ports, Falls, lakes

<u>River</u>	<u>Dam</u>
R. Nile	- Aswan Dam
Zambesi	- Kariba Dam
Niger	- Kainji Dam

→ Johannesburg → gold mine

→ People : Cattle Rearing  
Mining → gold  
↓  
Diamond  
Chromium.

→ Sheep - Merino - wool.

→ Temperate grasslands of S. Africa : Velds.

Life in the Deserts : Ch - 10

(I) Africa:

→ Desert: Sahara (N. Africa)

- Largest desert of world

- Countries →

- Algeria
- Chad
- Egypt
- Libya
- Mali
- Mauritania
- Morocco
- Niger
- Sudan
- Tunisia
- W. Sahara

→ Sahara is inhabited because of conflicting / competing demand of land. People are forced to stay at

- Mts
- Deserts
- Plateaus

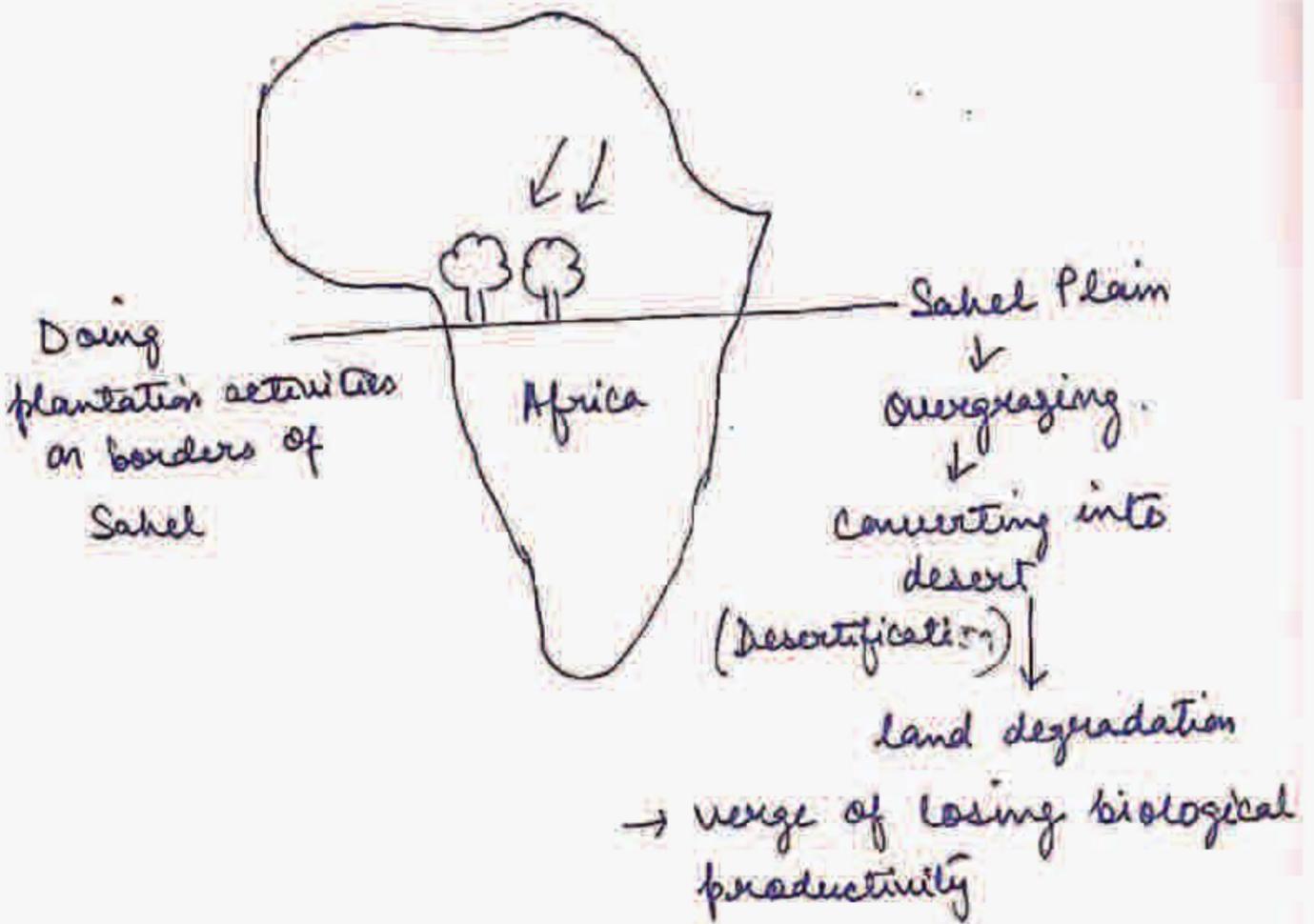
} Inhospitable climate

→ People: Bedouins, Tuaregs (Horsemen) - Sahara  
Bushmen - Kalahari Desert.

→ China - Check Book Diplomacy at Africa  
 → Extracting raw materials → move to own country → supplying finished products

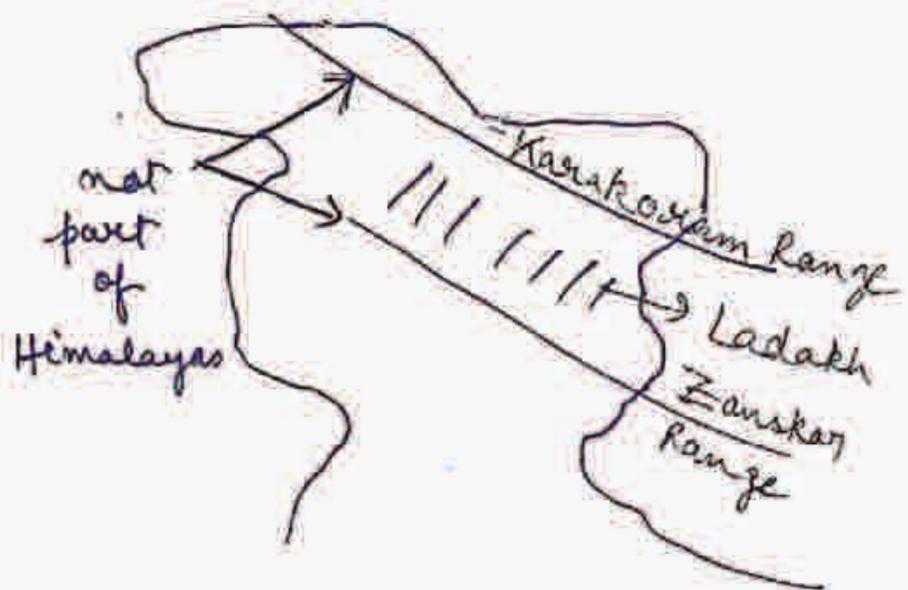
↓  
neo-colonialism

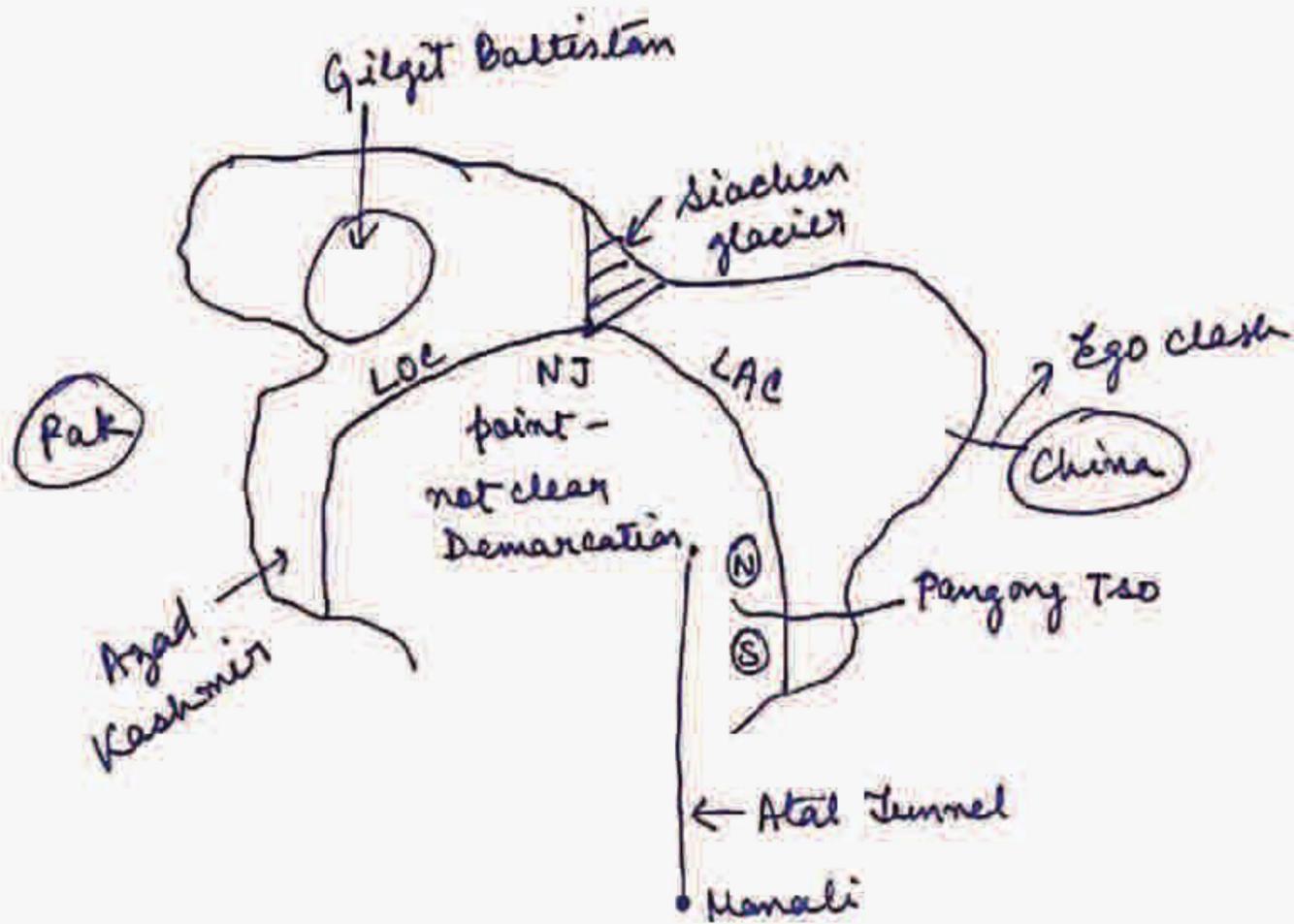
India → Soft powers (not-exploiting) → Training  
 → Defend from Pirates  
 → Telecom service etc



② Ladakh - Cold Desert

Desert  
 ↓  
 Moisture  
 ↙ ↘  
 Hot Cold





→ Chiru → endangered

↓  
wool → shaktosh → fine fabric → shawl / scarf / stole  
↓  
costly

→ Pashmina wool  
↓  
Cashmere goat → Trade in name of Shaktosh

→ Buddhist monasteries with traditional gompas.  
Monasteries - Hemis, Thiksey, Shey, Lamayuru

→ NH 1A - Leh to Kashmir valley through Zoji La Pass

→ Tourism: Major activity here

Responsible Tourism: ones → state + individual → towards environment, society etc