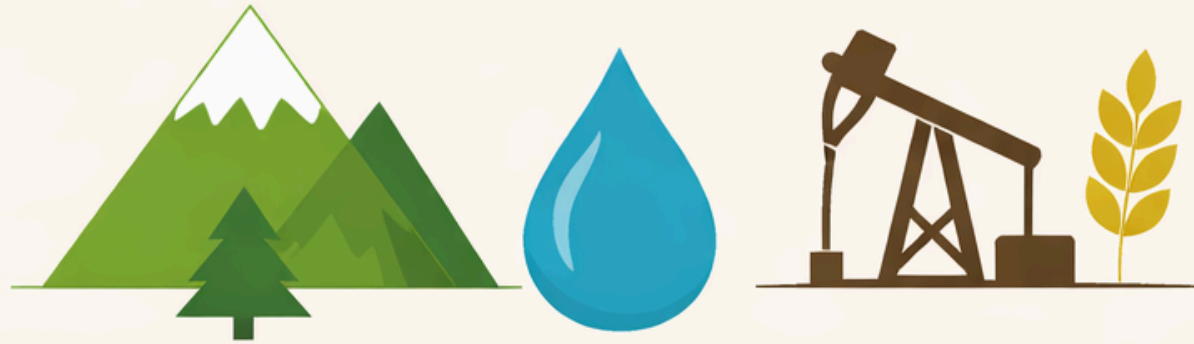


CHAPTER 8: NATURAL RESOURCES

GEOGRAPHY



AMIT ACADEMY
ANKLESHWAR

CLASS 10th GSEB

Uses of Resources

- Resources are very important for human life at every stage.
- All activities like agriculture, industry, and daily life depend on resources.

AMIT ACADEMY
ANKLESHWAR

1. Resources as Food

1 Fruits & Crops from Agriculture



2 Milk, Meat & Dairy Products



3 Fish & Aquatic Animals



4 Honey from Honeybees

These resources fulfill our food needs.

Classification of Resources

1 Ownership



2 Availability (Re-usability)



3 Distribution



Classification Based on Ownership

1. Individual Resources

- Owned by a person or family
- Land, House, Building



Land



House

2. National Resources

- Owned by a country or government
- Army, Railways
International Trade



Army



Railways



3. Global Resources

- Shared by all countries of the world
- Used for human welfare
- Atmosphere, Oceans



1. Universal Resources

- Found everywhere



Examples: Oxygen, Nitrogen

2. Generally Available Resources

- Easily available in many places



Examples: Land, Soil, Water, Pasture Land

AMIT ACADEMY
ANKLESHWAR

Classification Based on Distribution

3. Rare Resources

- Found at limited places



Examples: Coal, Petroleum, Copper, Gold, Uranium

4. Solitary Resources

- Found only at one or two places



Example: Cryolite (found mainly in Greenland)

Classification Based on Re-availability

AMIT ACADEMY
ANKLESHWAR

1. Renewable Resources

- Can be used again or reproduced naturally.



Examples: Solar energy, Wind, Water, Plants, Animals

2 Non-renewable Resources

- Cannot be reused or take very long time to form.



Examples: Coal, Petroleum, Natural Gas, Minerals

1 Human needs are unlimited, but resources are limited.

2 Due to population growth and scientific development, resource use has increased rapidly.

3 If resources are not conserved, future generations will suffer.

4 Therefore, resources must be used wisely, carefully, and rationally.

Planning & Conservation of Resources

AMIT ACADEMY
ANKLESHWAR



Meaning of Conservation

• Proper Use

• Protection

• Reuse

• Finding Alternatives



- Conservation means saving resources from overuse and wastage.
- It includes proper use, protection, reuse, and finding alternatives.
- Conservation is necessary when resources become scarce or endangered.

1

Collect Information about Resources



Collect information about used, unused, and potential resources of a region or country.

2

Use Non-Renewable Resources Scientifically



Limited and non-renewable resources should be used scientifically and only when necessary.

3

Increase Renewable Resources



Efforts should be made to increase renewable resources.

4

Avoid Wastage of Cheap and Easily Available Resources



Cheap and easily available resources should not be wasted.

5

Conserve Scarce Resources and Develop Alternatives



Scarce resources must be conserved and alternatives should be developed using technology.

Steps for Planning and Conservation of Resources

AMIT ACADEMY
ANKLESHWAR

6

Enforce Strict Laws for Conservation



Strict laws should be made and enforced for resource conservation.

7

Educate and Raise Awareness



People should be educated and made aware about the proper use of resources.

1 Top Layer of the Earth



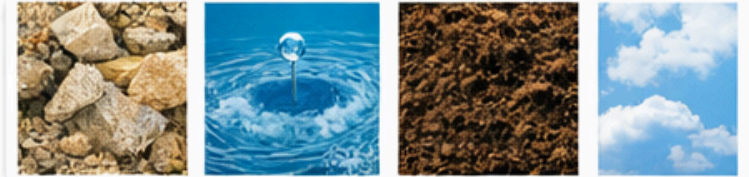
Where plants grow

2 Thin Layer on Surface



Found on Earth's surface

3 Components of Soil



Minerals

Water

Humus

Air

AMIT ACADEMY
ANKLESHWAR

4 Weathering of Rocks



Breakdown of parent rocks

8 Supports Plant Growth



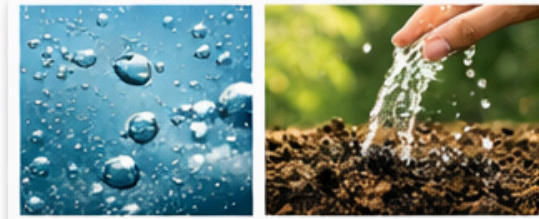
Helps plants develop

6 Organic Material



Dead Plants & Animals

7 Air & Water



Air

Water



Understanding Soil

5 Parent Rock



Rocks beneath the soil

1. ALLUVIAL SOIL



**2. BLACK SOIL
(REGUR SOIL)**



3. RED SOIL



AMIT ACADEMY
ANKLESHWAR

4. LATERITE SOIL



6. MOUNTAIN SOIL



5. DESERT SOIL



6. FOREST SOIL



7. MARSHY OR PEATY SOIL



TYPES OF SOIL

ALLUVIAL SOIL

Rich & Fertile Soil
Formed by River Deposits
(Alluvium)



1 COVERAGE IN INDIA

- Alluvial soil covers about **43%** of India's total area.



2 WHERE IT IS FOUND

- Found in the northern plains, from the **Brahmaputra valley** in the east to the **Sutluj river** in the west.



3 DELTA REGIONS OCCURRENCE

- Also found in the delta regions of the **Mahanadi, Godavari, Krishna, and Kaveri** rivers.



4 FORMATION

- This soil is formed by river deposits (alluvium).



5 NUTRIENT CONTENT

- It contains more potash, phosphoric acid, and limestone, but less nitrogen and humus.



6 IMPROVING NITROGEN

- Growing pulses helps increase nitrogen in this soil.



7 CROPS GROWN

- Crops grown in alluvial soil include wheat, rice (paddy), sugarcane, jute, cotton, maize, and oilseeds.





Black Soil (Regur Soil)



1. Covers 15% of India's Total Area



2. Formed from Deccan Lava



3. Found in Maharashtra, MP, AP & Karnataka

8. Also Known as Black Cotton Soil



4. Present in Gujarat (Surat, Bharuch, Vadodara, Tapi, Dang)



7. Crops: Cotton, Mustard, Groundnut, Tobacco, Urad



AMIT ACADEMY
ANKLESHWAR

6. Develops Cracks When Dry




5. Rich in Iron, Lime, Potash, etc.





1. "Laterite" from Latin "Later"




2. Red Due to Iron Oxide



3. Soft When Wet, Very Hard When Dry

1. "Laterite" from Latin



Laterite Soil

4. Formed Due to Wet & Dry Climate + Leaching of Silica



7. Less Fertile Naturally




AMIT ACADEMY
ANKLESHWAR

6. Contains Iron, Aluminium, Potash



5. Found in Higher Areas of Peninsular Plateau



8. Crops: Cotton, Rice (Paddy), Ragi, Sugarcane, Tea, Coffee, Cashew



Desert Soil

1. Arid & Semi-Arid Regions



Dry Desert Landscape

2. Sandy & Less Fertile



Sandy Soil

3. Rich in Dissolved Minerals



Mineral Deposits

AMIT ACADEMY
ANKLESHWAR

4. Regions in India



Rajasthan, Haryana, Gujarat

— Crops Grown with Irrigation —



Millet



Jowar

Mountain Soil



AMIT ACADEMY
ANKLESHWAR

Mountain Soil

Altitude
2700-3000 metres



Found in Assam



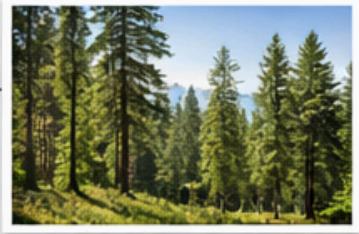
Darjeeling



Uttarakhand & Himachal Pradesh



Pine & Deodar
Forests



1 Altitude 3000–3100
Metres



2 Coniferous Forests



3 Rich in Humus

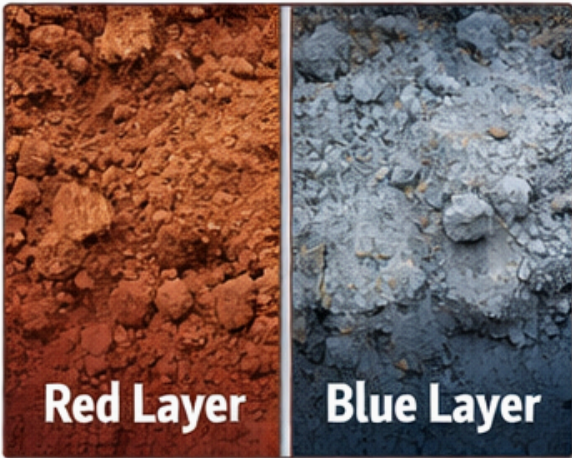


Dark & Humus Rich

AMIT ACADEMY
ANKLESHWAR

Forest Soil

4 Colourful Layers



Red Layer

Blue Layer

5 Crops Grown



Tea, Coffee, Spices, Wheat, & More

6 Limited Area



Found in Small Regions

1 Humid Regions



2 High in Organic Matter



3 Waterlogged During Rains



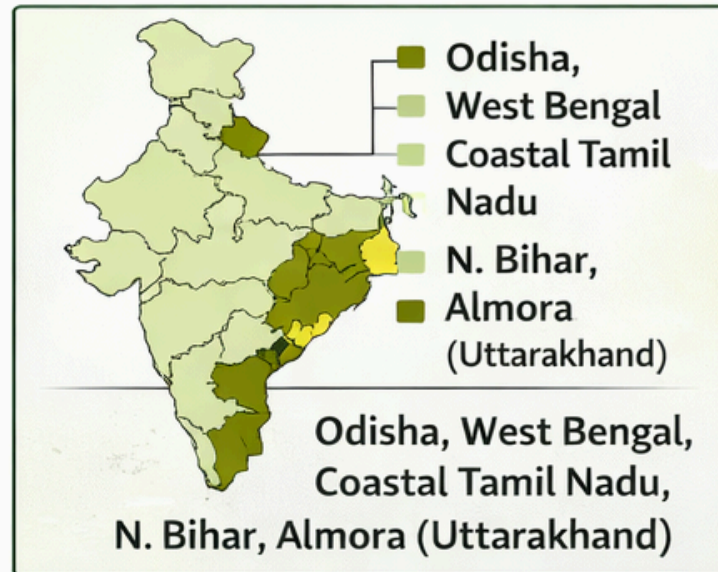
Marshy or Peaty Soil

AMIT ACADEMY
ANKLESHWAR

5 Lacks Nutrients



6 Small Area in India



4 Rice Grown After Rains



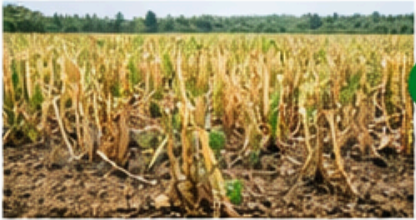
Effects of Soil Erosion



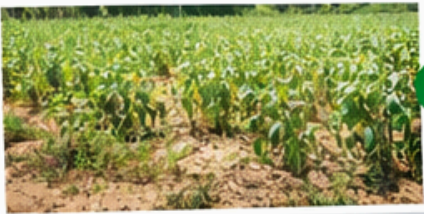
1. Loss of Topsoil



2. Reduced Soil Fertility



3. Decreased Crop Yield



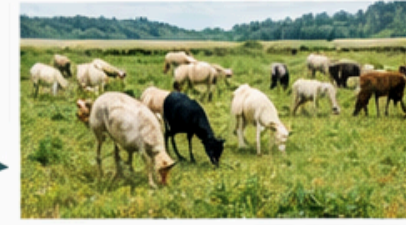
4. Lowered Agricultural Production

Soil Erosion

Removal of topsoil by water and wind.

AMIT ACADEMY
ANKLESHWAR

Measures to Prevent Soil Erosion



1. Control Overgrazing



2. Contour Farming



3. Plant Trees on Barren Land



4. Build Check Dams

Soil Conservation

AMIT ACADEMY
ANKLESHWAR

1. Contour Plowing



- Plowing Along Contour Lines



2. Tree Planting



- Roots Hold Soil
- Prevent Erosion



3. Terracing



- Step-like Fields
- Reduce Runoff



Remedies / Methods of Soil Conservation

