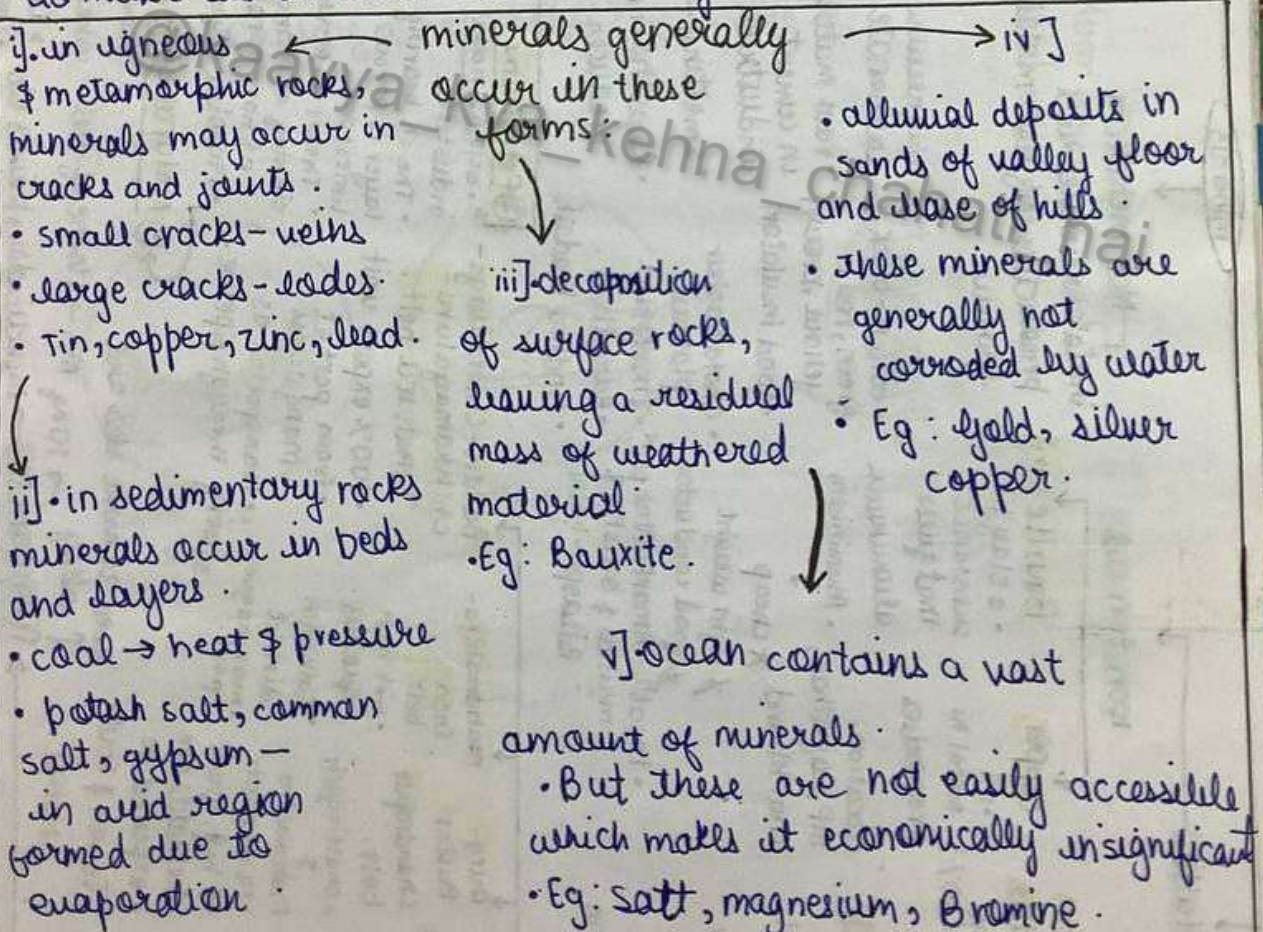


# MINERAL AND ENERGY RESOURCES.

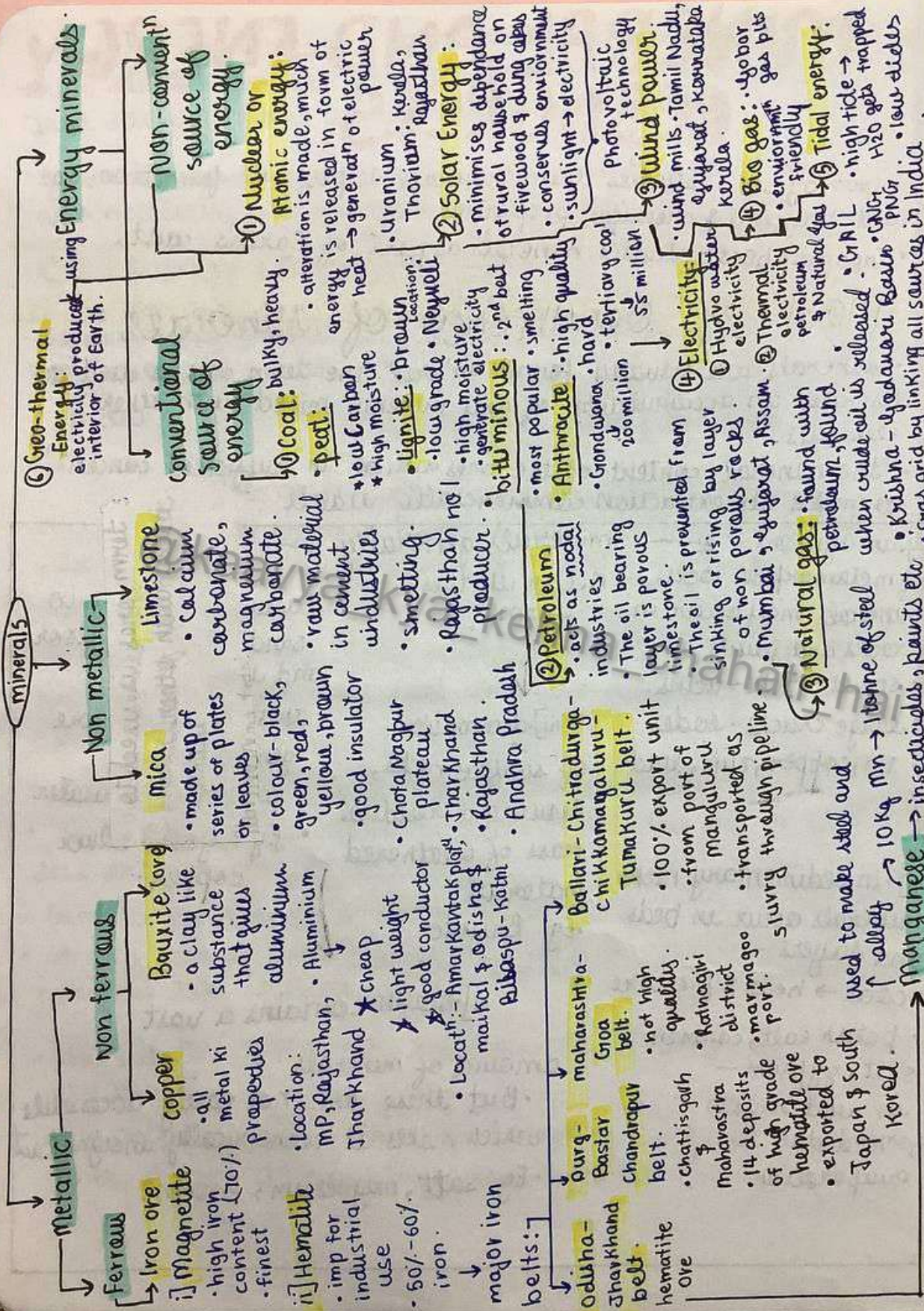
- **Geologists**: studies these minerals deeply, its formation, age and physical & chemical properties.
- **Geographers**: studies minerals as part of Earth's crust.

## Mode of Occurrence of Minerals:

- minerals are usually found in "ores". The term ores is used to describe an accumulation of any mineral mixed with other elements.
- The mineral content of the ores must be in sufficient concentration to make its extraction commercially viable.



# minerals



# Conservation of Minerals

• minerals form only 1% of earth's crust.

• minerals are  $\left\{ \begin{array}{l} \rightarrow \text{finite} \\ \rightarrow \text{short-lived} \\ \rightarrow \text{non renewable.} \end{array} \right.$

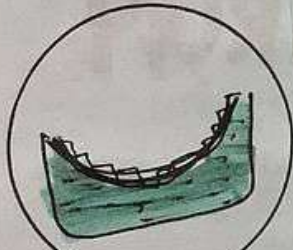
• sol<sup>n</sup>:-

- ① improve technology to even use low grade minerals efficiently
- ② Recycling
- ③ Finding substitutes
- ④ Promote sustainable development.
- ⑤ use public transport
- ⑥ use power saving devices

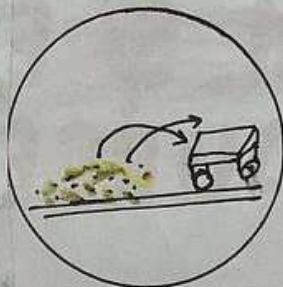
## Hazards of Mining

- The dust and noxious fumes inhaled by miners make them vulnerable to heart diseases.
- Risk of collapsing mine roofs, floods, fire etc.

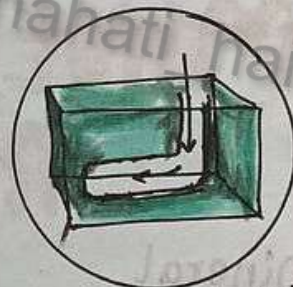
important : 3 pie charts



open pit mining



quarry



underground mining with shafts.