

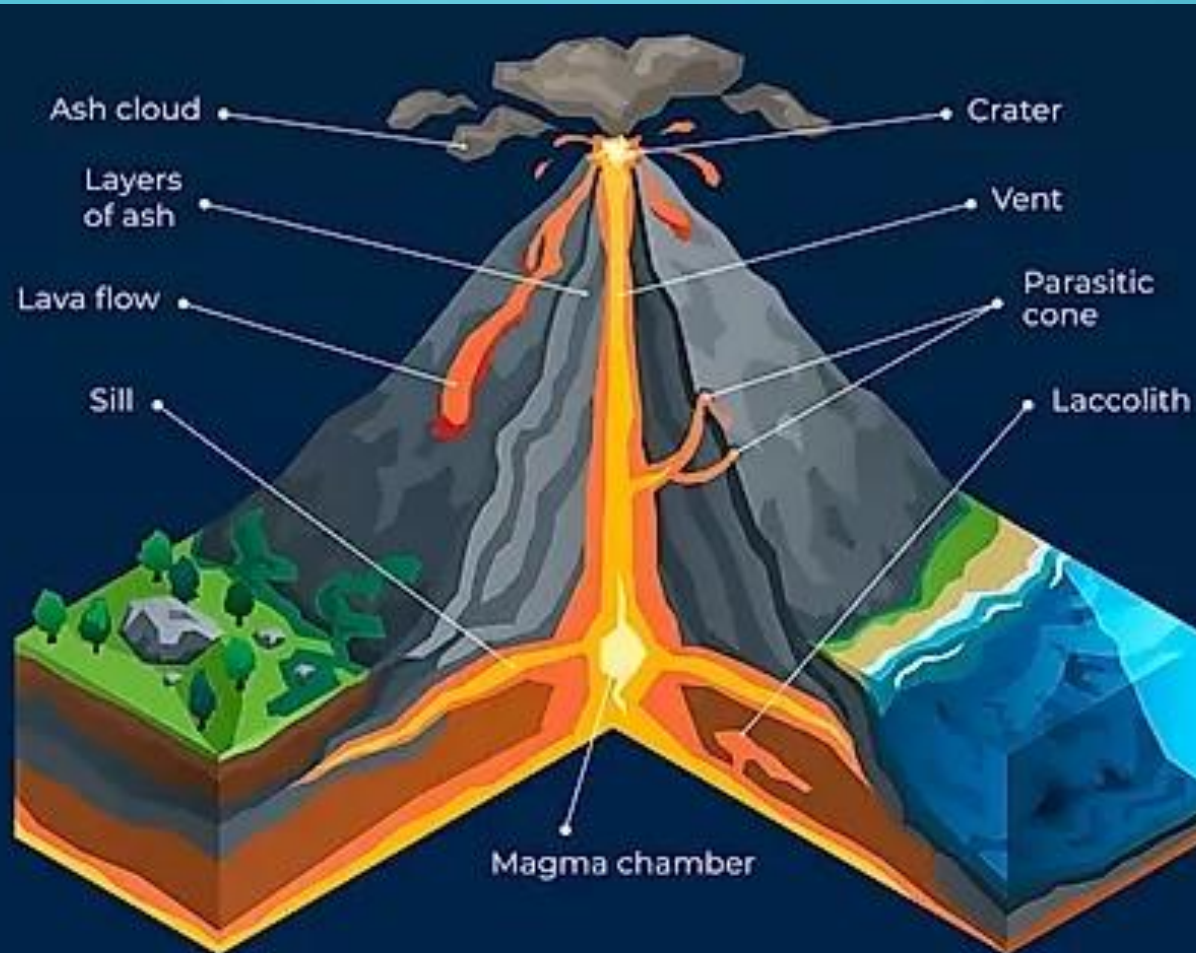
VOLCANO AND ROCKS



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VOLCANO

A volcano is a place where gases, asses and molten rock material lava (magma) escape to the ground from asthenosphere.



TYPES OF VOLCANOES

- **Active volcano :-**

They erupt frequently and likely to erupt in near future.

e.g. – Mount Stromboli (lighthouse of Mediterranean sea), Barren Island.

- **Dormant Volcano :-**

These are not extinct but not erupted in recent history.

e.g. – Mount Kilimanjaro.

- **Extinct or inactive volcano :-**

A volcano which is not erupted in past 1000 years.

e.g. – Deccan Trap, India

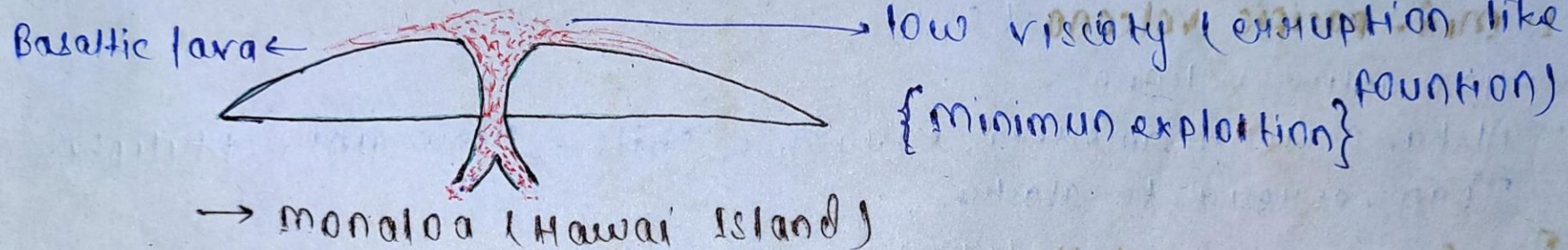
Causes :-

1. Plate tectonic movement (converging and diverging)
2. Physical cause

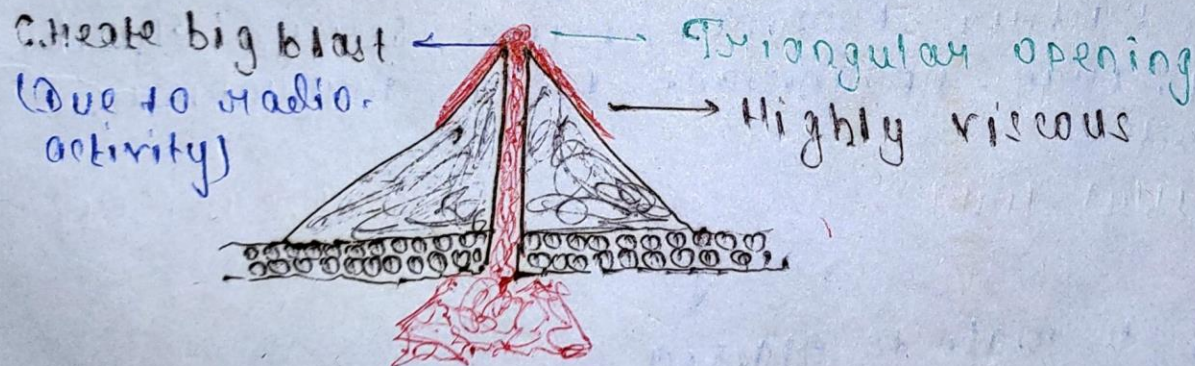
Rain, cracks of the earth

⇒ Types of volcano

1. Shield volcano

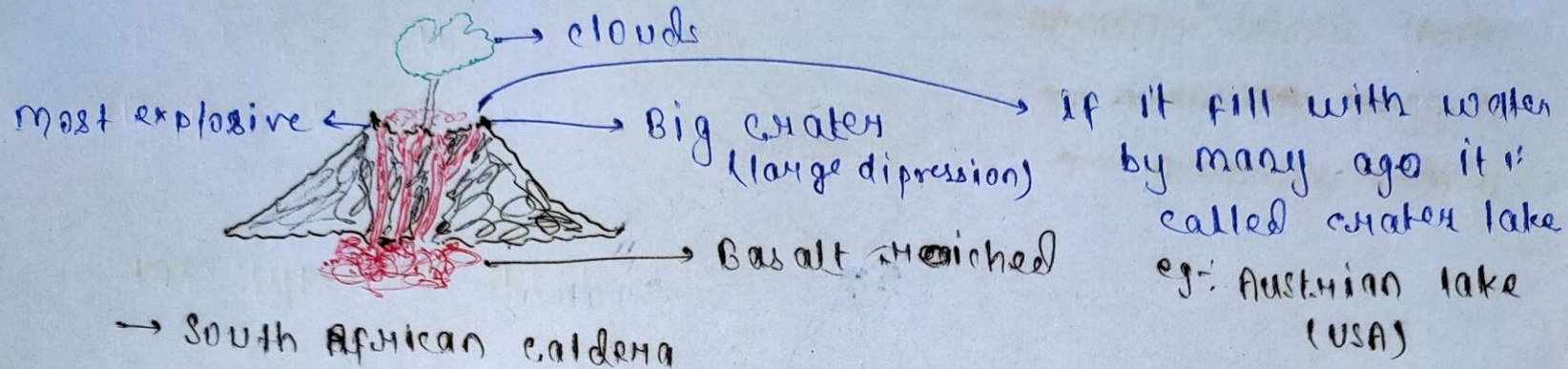


2. Composite volcano



→ Mount Fuji (Japan)

3. Caldera

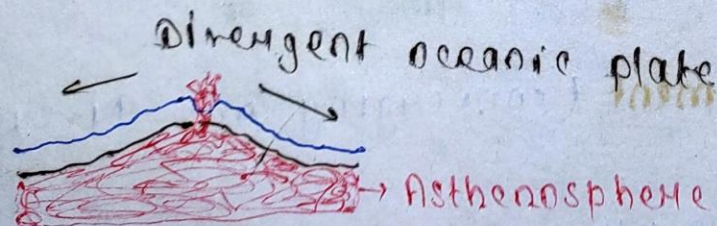


4. Flood-Basalt provinces



→ Deccan trap of India

5. mid-ocean volcano



→ ~~Ring of fire~~ mid-oceanic Ridge (Atlantic ocean)



PROMINENT VOLCANOES OF WORLD.

- Highest Volcano :- Ojes del Salado (Argentina)
- Most active volcano -: Kilauea (Hawaiian Island)
- Most Explosive volcano :- Mount Vesuvius (Italy)
- Widest Volcano :- Tamu Massif (Hawaii)

ROCKS

Igneous Rock :-

- Formed by cooled lava
- Crystalline in nature with **no layer** (no fossils).
- Types :-

On basis of origin -:

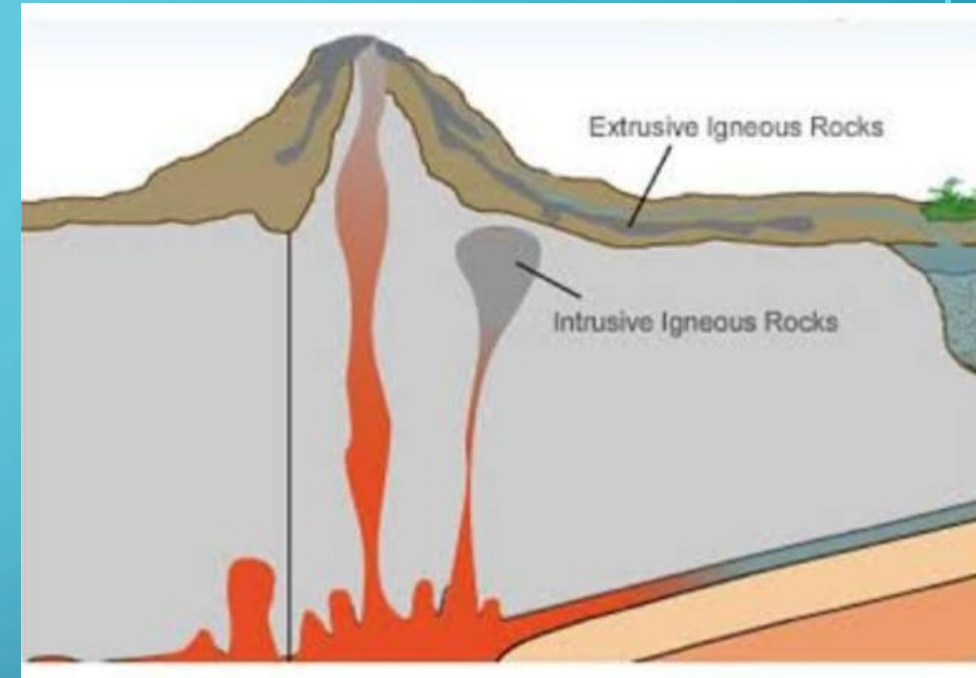
Plutonic – Granite, Diorite etc

Volcanic – Basalt

On basis of mineral composition :-

Acidic – Silica (66%) {Light black} {Deccan Trap}

Basic – Silica (44-52) {Dark black} {Chotanagpur}



SEDIMENTARY ROCK

- Made up of sediment accumulated due to erosion and deposition of igneous and metamorphic rock. {Lithification}.
- Formed in layers (Fossils found)
- Soft and non-crystalline.
- Mechanically formed sedimentary rocks :-
sandstone, shale, conglomerate, boulder clay
- Organically formed sedimentary rocks :-
Animals :- Coral Islands (Lakshadweep).
Plants :- Coal, Limestone.
- Chemically from sedimentary rocks :-
Dolomite, Chalks, gypsum, rock salt etc



METAMORPHIC ROCKS

- Metamorphic rocks are formed due to complete alternation in appearance and constituent of pre-existing rock due to change in mineral composition and texture through temperature, pressure and volume.
- It doesn't contain fossils.
- Metamorphosis of some rocks :-

Shale – Slate

Limestone – Marble

Sandstone – Quartzite

Dolomite & Chalk – Marble

Granite – Gneiss

Basalt – Schist

Coal – Graphite