

Q3

What is mirage? Explain the creation of mirage.

Definition

(1) Mirage is a deceptive phenomenon in which object shadow look downward due to bending of light wave in the varying intensity of air. Some time object does not exist.

(2) Image formed by hottest air in the faraway but does not really exist.

(2) Formation of mirage

The bending of light due to different intensity of air move downward. So exacting in the air form a bending image which

is reflected from the eye.

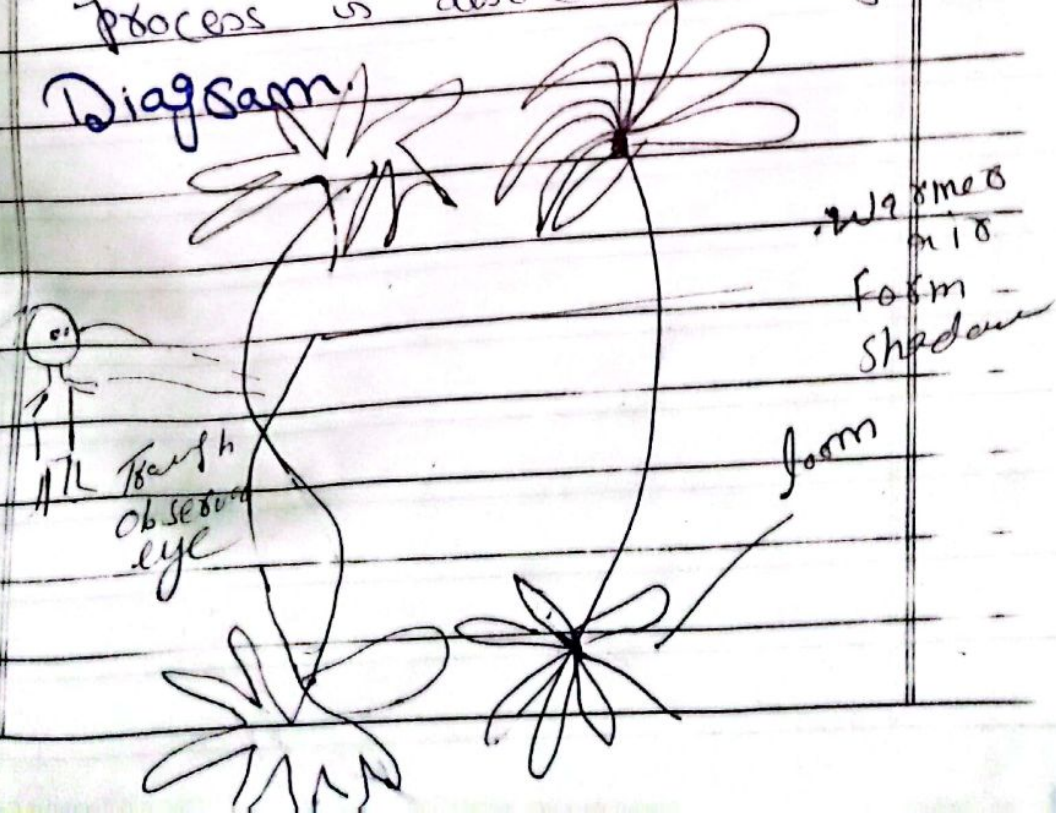
(1) Example

When a camel passing through a desert in image normal but when it reaches to hottest part downward image is shown it is due to hot air which is cool through elevation. The show downward image.

Formation of double image

Sometime double images are form when the air pass through straight line. This process is also called looming

Diagram



What do you know about volcanoes? Discuss the causes and effects?

1- Volcanic Eruption.

(1.1) Definition

Volcanic eruption is a violent spew of gases, fragments in the form of earth crust.

2- Formation of volcanoes.

The volcanoes are formed in three steps.

(1.1) Neck volcano

It is a pipe like structure through which lava come out on the crust.

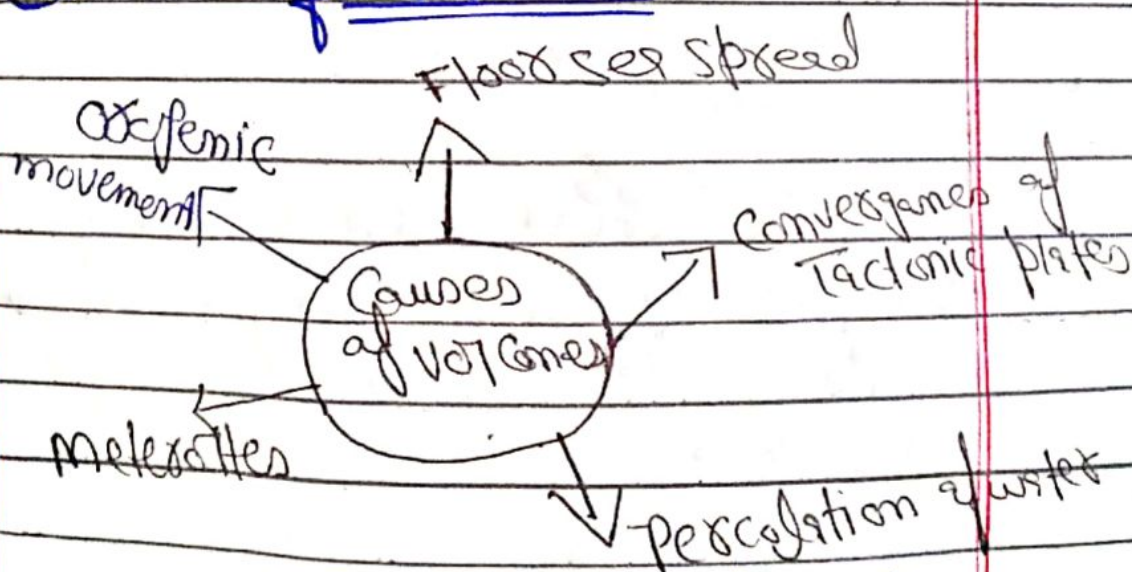
(1.2) Crater of volcano

It is an area through which lava out.

(1.3) Volcanic cone

Lava come out through crater and accumulate around it and form cone like structure called volcanic cone.

Causes of volcanoes



(1.3.1) Sea Floor Spread

Tectonic plate break which spread sea floor. basalt comes (down) fissure. Fissure comprise molten rock. There is gap between them that form sea ridges.

(3.2) Conversion of plates

- Conversion of oceanic-continental plate
- Tectonic plates

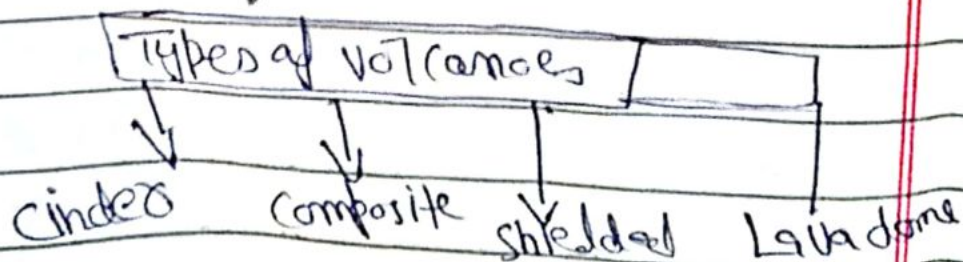
(3.3) Percolation of water.

Percolation of cold water form a crack on molten rock. It is comprises with molten rock and occurs near mountain axis.

(3.4) Orogenic movement

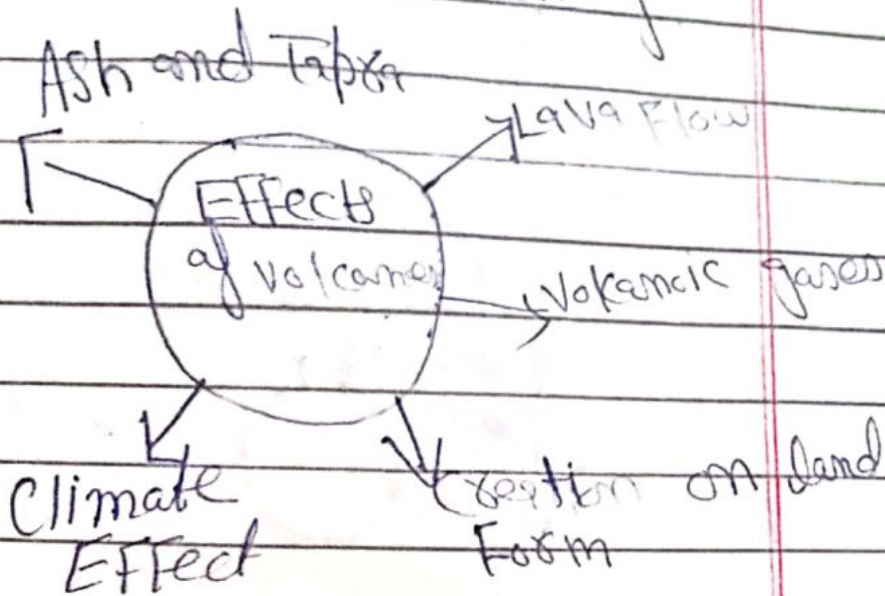
The lava cannot out from higher pressure downward. But when it enters and move upward its pressure decrease. its start to melt and come out.

Types of volcanoes.



5- Effects of volcanoes

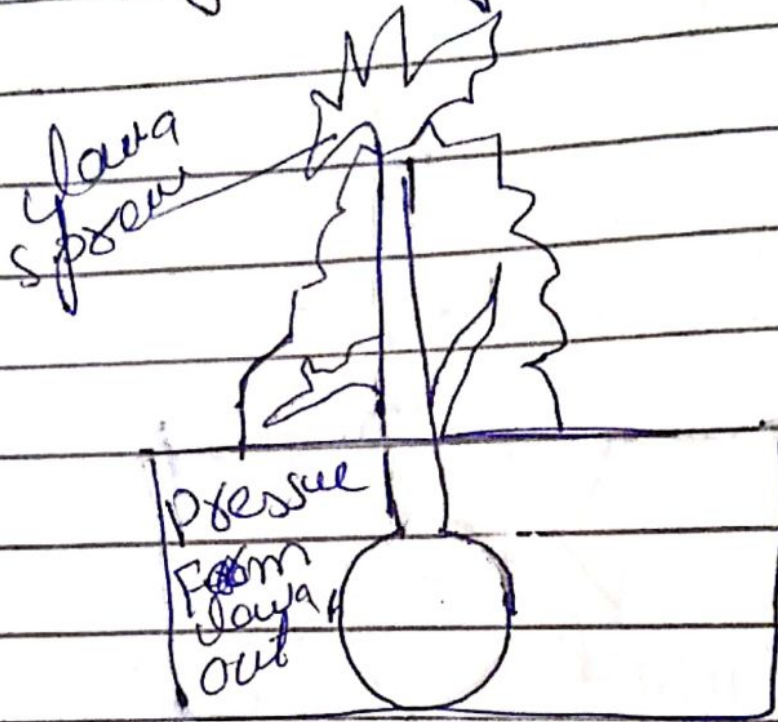
Volcanoes effects environment
Social life and Economy



• Lava flow: Lava flow through molten rocks it is flow out and destroy infrastructure and land.

- Ash and Tephra. Also effect environment by release gases it cause respiratory infection.
- Volcanic gases are Sulphur Carbon, Nitrogen release in air cause air pollution.
- Climate also effect through gases nitrogen and Sulphur.

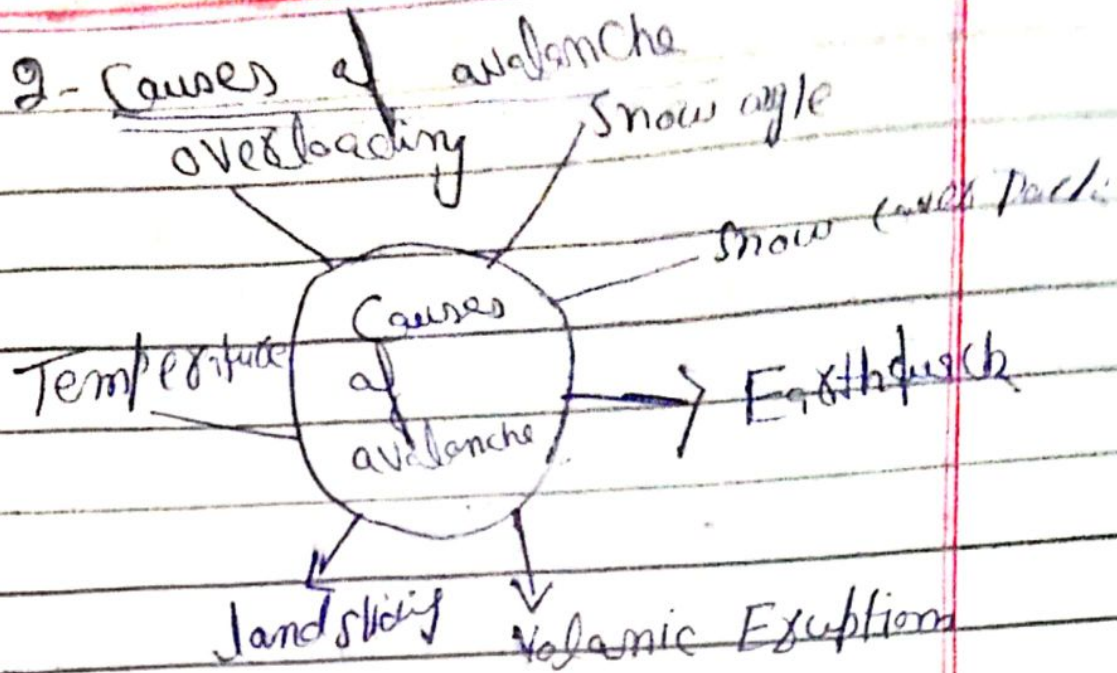
in air form acid rain
of creation on landform are
destroy very and ecosystem



What is avalanche? its most dangerous 4 types?

avalanche.

Avalanche is derived from a ~~Latin~~ French word which means descent. It is a snow collection, which travel down and destroy all thing in its path.



(2.1) Overloading

The avalanche form with snow and other particles mix with it is overload and travel downward.

(2.2) Temperature

Temperature lose the cohesion and break structure. Snow move outward.

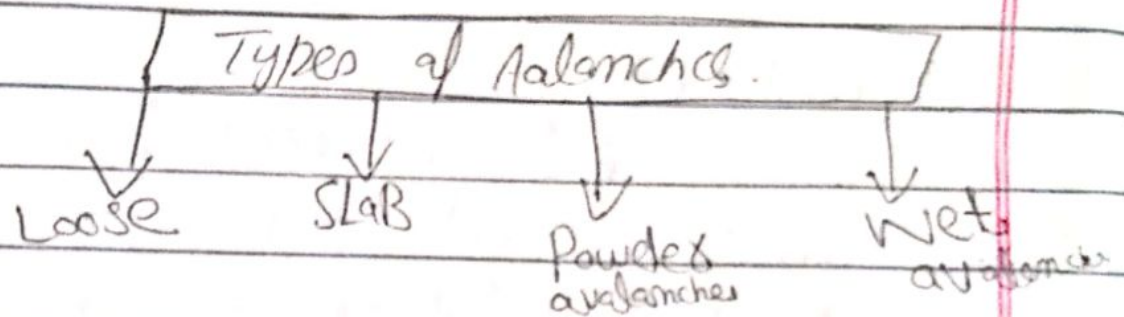
(2.3) Snow angles

Snow angle from cohesion on avalanches it is between 15 to 40 degree. It also generally from 45 to 60.

Snow pack cover

The new snow covers the behind structure that are never seen.

Types of Avalanches.



(1.1) Loose Avalanches.

It is a fresh snow it does not get time to settle it is loose with sun light and move downwards.

(1.2) SLAB Avalanches

It is stages after Loose avalanches. It is covers the Loose Snow Debris and

other thing mix on it.

(3) Powder Form

it is a mixture of ice, snow and other gases. it is in powder form.

(4) Wet Avalanche

it is most dangerous type of avalanche. it is wet because friction is low and it is not stable and moving downwards.

Effects of avalanches

