

January Month Notes.

Ln-12 Air, Water and Weather

I. Technical Words:

1. Evaporation:

The process of change of water into water vapour due to heating

2. Condensation:

When water vapour cools down it changes into drops of water.

II Short Answers:

1. What are the different forms of water?

* Ice, water and water vapour are the three forms of water.

* In nature water exists in the form of fog, dew, frost, hail and snow.

2. What are the factors that affect evaporation?

Evaporation takes place at a faster rate when

* there is a strong wind,

* the exposed surface of water is large,

* the temperature of the surroundings is high

* the air is dry.

III Long Answers:

1. Explain the different ways of purifying water.

Sedimentation and Decantation:

* Impurities that are heavier than water will settle at the bottom of the water leaving it clear. ^{This} is called sedimentation.

* Now slowly pour out this clear water into another vessel. This is called decantation.

Filtration:

The process of filtering water by using a strainer, a clean piece of cloth or using a filter paper to remove insoluble impurities.

Chlorination:

Chemicals like chlorine are used to kill germs at the water works of a city by adding chlorine.

The other ways includes boiling or adding bleaching powder or potassium permanganate.

2. Differentiate between land breeze and sea breeze.

Land breeze	Sea breeze
* At night, the land cools down faster than the sea.	* During the day, the land gets heated quickly than the sea.
* The hot air above the sea rises.	* The hot air above the land rises.
* The cooler air from the land blows towards the sea to take its place.	* The cooler air from the sea blows towards the land to take its place.

IV Hots :

1. Even on a very hot day, people in coastal areas do not feel very hot. Why?

In coastal areas, during the day, land gets heated quickly but the sea does not. When the air above gets heated it rises up and the cool breeze blows towards the land during day.

2. Early on winter mornings, we see drops of water on parked cars and plants. Why?

When the water vapour in the air condenses it appears as droplets on the ground and other surfaces like parked cars or plants. ^{It is} called dew.

H. Sharma
5/1/26