



KALPAVRUKSHA MODEL SCHOOL

Online class Assignments

Class: VII

Sub: Chemistry

Date: 10.07.2021

Topic: Soil

I. Answers for the following questions:

1. Define percolation rate.

Ans: The rate at which water exits the soil is known as its percolation rate.

2. What are the properties of soil?

Ans: Soil has special properties that determine its types. These properties are: Absorption of water in soil, Moisture in soil, Percolation rate of water in soil.

3. Explain different properties of soil.

Ans: Absorption of water in Soil: The plants that grow in soil require water to grow. If the soil can hold the water, then the plants grow well. If the soil does not hold the water then soil requires frequent watering or else the plants will die. The amount of water a particular type of soil can absorb is its water absorption tendency. Higher the absorption of water by soil, higher is its availability to plants.

Moisture in the Soil: When you take little amount of soil in test tube and heat it, you will see tiny droplets of water at the mouth of test tube. It shows that soil contain little amount of water in the form of moisture.

We can estimate the moisture content of the soil by the look and feel of it. Soil moisture helps to determine when it needs to be irrigated and how much water it needs.

Percolation rate of water in Soil: The rate at which water exits the soil is known as its percolation rate. Different soils have different percolation rates. For proper plant growth, it is important to check percolation rate of water in soil. In well drained soil, water will pass quickly after it get irrigated. Soil with poor percolation will hold too much water for too long a time and this can be harmful to plants.

4. What do you mean by soil suitability for crops? Explain.

Ans: Soil does not have the same properties everywhere, and therefore different varieties of plants can grow in different areas. That is why some places grow a particular crop more than the others. Punjab, Uttar Pradesh and Haryana grows Wheat. Punjab, Andhra Pradesh and Uttar Pradesh grows rice.

5. How do adjust pH level of soil? Explain.

Ans: Acidity or alkalinity of soil affects growth of plants, a fertile soil should have a neutral pH it can be controlled by adding lime (if acidic soil) or peat (if alkaline soil).