

Name: _____ Date: _____

Soil

Q1. What are the properties of sandy soil?

Ans. _____

Q2. Sketch the cross section of soil and label the various layers.

Ans. _____

Q3. Razia conducted an experiment in the field related to the rate of percolation. She observed that it took 40 min for 200 mL of water to percolate through the soil sample. Calculate the rate of percolation.

Ans. _____

Soil

Q1. What are the properties of sandy soil?

Ans. Properties of sandy soil are:

- i. Sand particles are quite large.
- ii. Sand particle cannot fit closely together, so there are large spaces between them. These spaces are filled with air. So, the sand is well aerated.
- iii. Water can drain quickly through the spaces between the sand particles. So, sandy soils tend to be light and dry.

Q2. Sketch the cross section of soil and label the various layers.

Ans.

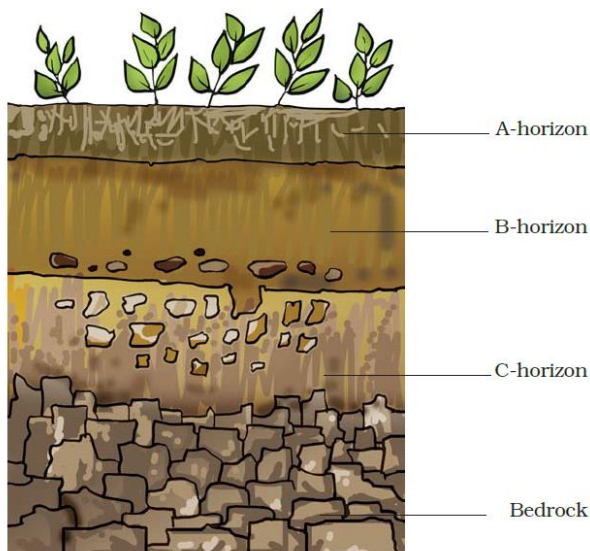


Image From NCERT

Q3. Razia conducted an experiment in the field related to the rate of percolation. She observed that it took 40 min for 200 mL of water to percolate through the soil sample. Calculate the rate of percolation.

Ans. Amount of water = 200 ml
Percolation time = 40 min

Therefore, percolation rate = $\frac{\text{Amount of water (ml)}}{\text{Percolation Time (min)}}$

$$= \frac{200 \text{ ml}}{40 \text{ min}} = 5 \text{ ml/min}$$