

Class-VII (CHAPTER-09) SOIL

Questions

Tick the most suitable answer in questions 1 and 2.

1. In addition to the rock particles, the soil contains

- (i) air and water
- (ii) water and plants.
- (iii) minerals, organic matter, air and water.
- (iv) water, air and plants.

2. The water holding capacity is highest in

- (i) sandy soil
- (ii) clayey soil
- (iii) loamy soil
- (iv) mixture of sand and loam.

3. Match the items in Column I with those in Column II.

Column I

Column II

- | | |
|--------------------------------|---------------------------------------|
| (i) A home of living organisms | (a) Large particles. |
| (ii) Upper layer of the soil | (b) All kinds of soil. |
| (iii) Sandy soil | (c) Dark in colour |
| (iv) Middle layer of the soil | (d) Small particles and packed tight. |
| (v) Clayey soil | (e) Lesser amount of humus. |

4. Explain how soil is formed.

5. How is clayey soil useful for crops?

6. List the difference between clayey soil and sandy soil.

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

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

9. Explain how soil pollution and soil erosion could be prevented.

NCERT Solutions

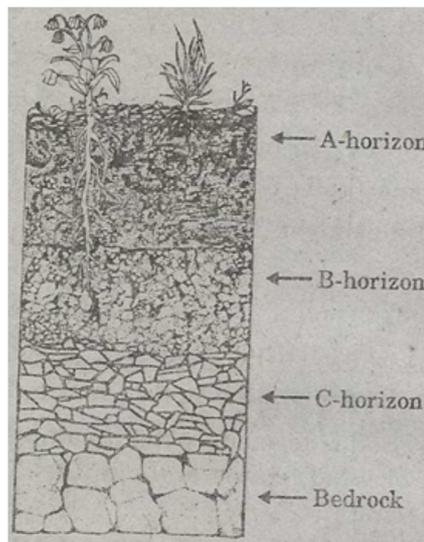
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Answers

- (iii) minerals, organic matter, air and water.
- (ii) clayey soil.
- (b)
 - (c)
 - (a)
 - (e)
 - (d)
- Soil is formed by the breaking down of rocks by the action of wind, water and climate. This process is called weathering.
- Clayey soil retains water to a great extent. Thus, the crops which require more water grow well in clayey soil.
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Sandy soil	Clayey soil
(i) High percolation rate.	(i) Low percolation rate.
(ii) Low water retention capacity.	(ii) High water retention capacity.

7.



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8. Rate of percolation = amount of water/percolation time.
 = 200mL/40 min.
 = 5 mL/min.
9. Cutting of trees and deforestation should be prevented and effort should be made to increase the green areas to prevent soil erosion and soil pollution.
- 10.

1. W												
I		2. E	R	O	S	I	O	N				
N											3. W	
D											H	
	4. S		5. P	O	L	Y	T	H	E	N	E	
	A		R								A	
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	D		F			6. C	L	A	Y			
	Y		I									
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			7. E	A	R	T	H	W	O	R	M	
