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NCERT Solutions for 7th Class Science: Chapter 9-Soil



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Class 7: Science Chapter 9 solutions. Complete Class 7 Science Chapter 9 Notes.

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Exercises

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

Answer

✓ (iii) minerals, organic matter, air and water

2. The water holding capacity is the highest in

(i) sandy soil

(ii) clayey soil

(iii) loamy soil

(iv) mixture of sand and loam

Answer

✓ (ii) clayey soil

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

Column I	Column II
(i) A home for 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

Answer

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Column I

Column II

(i) A home for living organisms

(b) All kinds of soil

(ii) Upper layer of the soil

(c) Dark in colour

(iii) Sandy soil

(a) Large particles

(iv) Middle layer of the soil

(e) Lesser amount of humus

(v) Clayey soil

(d) Small particles and packed tight

4. Explain how soil is formed.

Answer

The soil is formed by the process of weathering in which the rocks break down by the action of wind, water and climate. It is a very slow process and big rocks get converted into soil.

5. How is clayey soil useful for crops?

Answer

Clayey soil is very useful for crops because:

- (i) It has very good water retaining capacity.
- (ii) This soil is rich in humus and is very fertile.
- (iii) It contains useful organic minerals.

These properties of loamy soil is very suitable for growing crops.

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

Answer

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Clayey Soil

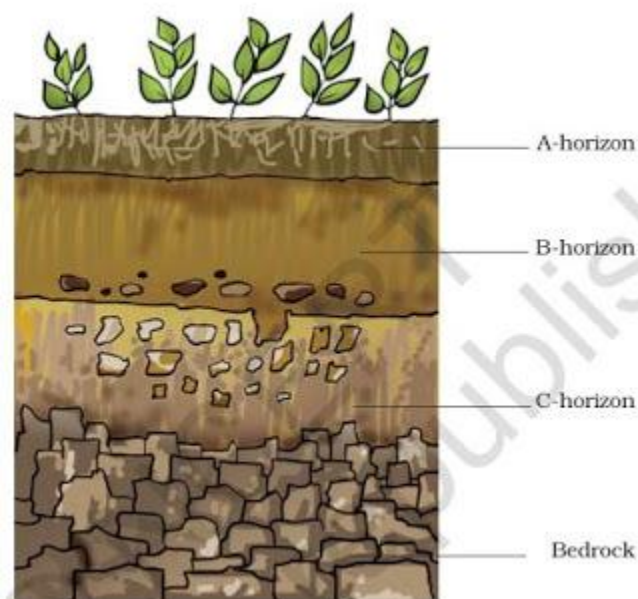
- (i) It has much smaller particles.
- (ii) It can hold good amount of water.
- (iii) It is fertile.
- (iv) Air content is low.
- (iv) Particles are tightly packed
- (iv) Good for growing various crops.

Loamy Soil

- (i) It has much larger particles.
- (ii) It cannot hold water.
- (iii) It is not fertile.
- (iv) Air get trapped between the particles.
- (iv) Particles are loosely packed
- (iv) Not suitable for growing crops.

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

Answer



8. 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.

Answer

Amount of water taken = 200 mL

Time taken by water to percolate = 40 min

∴ Rate of percolation = Amount of water taken/Time taken by water to percolate
= 200 mL/40 min = 5 mL/min

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

Answer

Steps for preventing soil pollution and soil erosion:

(i) Plantation should be encouraged because plant roots firmly bind the soil and help in preventing erosion.

(ii) Methods like crop rotation and mixed farming should be followed.

(iii) Use of organic fertilizers and manure instead of synthetic.

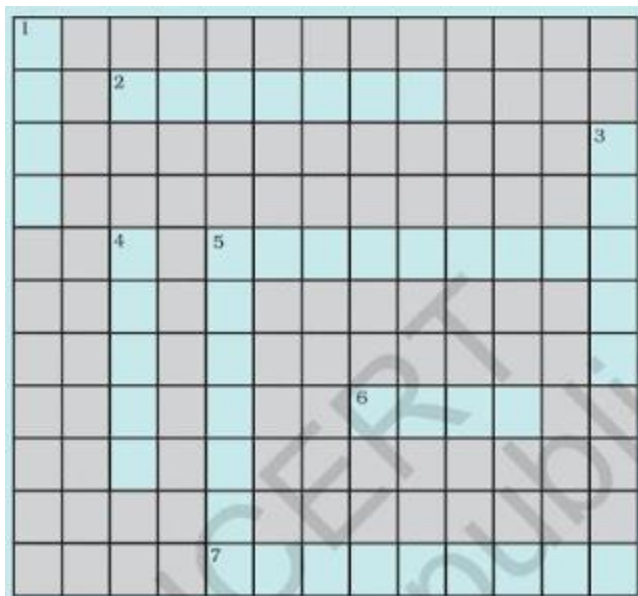
(iv) Pesticides and insecticides should be used in limited quantity and find natural way to prevent it.

(v) Plastic bags should be banned and it doesn't decompose and gives rise to soil pollution.

(vi) Industrial waste shouldn't be dumped directly as it kills necessary micro organisms of soil.

10. Solve the following crossword puzzle with the clues given:

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**Across**

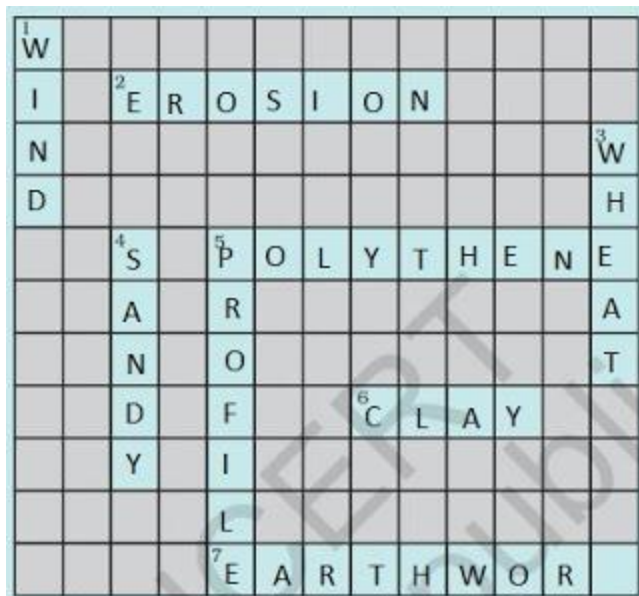
2. Plantation prevents it.
5. Use should be banned to avoid soil pollution.
6. Type of soil used for making pottery.
7. Living organism in the soil.

Down

1. In desert soil erosion occurs through.
3. Clay and loam are suitable for cereals like.
4. This type of soil can hold very little water.
5. Collective name for layers of soil.

Answer

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Across

2. Plantation prevents it. → Erosion
5. Use should be banned to avoid soil pollution. → Polythene
6. Type of soil used for making pottery. → Clay
7. Living organism in the soil. → Earthworm

Down

1. In desert soil erosion occurs through. → Wind
3. Clay and loam are suitable for cereals like. → Wheat
4. This type of soil can hold very little water. → Sandy
5. Collective name for layers of soil. → Profile



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- Chapter 6 Physical and Chemical Changes
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- Chapter 8 Winds, Storms and Cyclones
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- Chapter 11 Transportation in Animals and Plants
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