

PARAGON CONVENT SCHOOL

SECTOR: 24B, CHANDIGARH

LESSON - 6

SOIL

Summary:

- Soil is important for all living organisms.
- The three main types of soils are sandy, loamy and clayey.
- Soil erosion makes the soil unfit for farming.
- Soil erosion is caused by strong wind, heavy rain, deforestation, overgrazing etc.
- We can conserve soil by planting trees, building dams, step farming etc.

Multiple Choice Questions (Page No. 42)

1. (c) 2. (c) 3. (a)

Multiple Choice Questions (Page No. 43)

1. (b) 2. (a) 3. (c)

EXERCISES

Section A

Oral Questions

Q1.- Why is soil valuable to us?

Ans.- Soil is valuable to us because all the plants grow in the soil. Some animals, like rabbits, earthworms and ants live in the soil.

Q2.- How do trees help to prevent soil erosion?

Ans.- The roots of trees hold the soil tightly and help to protect soil from erosion.

Q3.- Why do different places have different types of soils?

Ans.- Different places have different types of soil because the type of soil depends upon the kind of rocks from which it is formed. It also depends on the constituents of soil, texture, size and colour of the soil particles.

Science Quiz

Q1.- Name three things present in the soil.

Ans.- Water, air and humus/organic matter

Q2.- Which soil is used to make pots?

Ans.- Clayey soil

Q3.- Give one way to prevent soil erosion.

Ans.- Afforestation (planting more and more trees)

Worksheet

Multiple Choice Questions

1. (a) 2. (b)

Fill in the blanks with the help of the given words

1. soil 2. soil erosion 3. sand 4. gravel
5. soil conservation

Match the following

1. (c) 2. (e) 3. (d) 4. (b) 5. (a)

Identify the following soils and write their names in the spaces provided

1. Sandy soil 2. Clayey soil 3. Loamy soil

Section B

Multiple Choice Questions

1. (c) 2. (a)

Very short answer questions

Q1.- Name the soil that can hold enough air and water.

Ans.- Loamy soil can hold enough air and water.

Q2.- What do we call the topmost fertile layer of the soil?

Ans.- The topmost fertile layer of the soil is called topsoil.

Q3.- Which soil is used for making buildings?

Ans.- Sandy soil is used for making buildings.

Short answer questions.

Q1.- What is crop rotation?

Ans.- Crop rotation is growing of different types of crops in the same field to maintain the fertility of soil.

Q2.- Give one characteristic each of sandy, clayey and loamy soil.

Ans.- (a) Sandy soil cannot hold much water as water passes through its particles easily. It is found in deserts and at seashores.

(b) Clayey soil can hold a lot of water as water does not pass through its particles easily. It is found in ponds and river beds.

(c) Loamy soil can hold enough air and water, and is good for growing plants. It contains humus.

Q3.- Pratyush is a forest officer who not only protect trees from being cut but also plants a tree regularly and takes its proper care.

a) How does deforestation promote soil erosion?

b) What can we learn from Pratyush?

Ans.- (a) Due to deforestation, i.e., cutting down of trees on a large scale, the soil is exposed to wind and rain, which causes soil erosion.

(b) From Pratyush, we learn to take care of our environment.

Long answer questions

Q1.- What is weathering? How does it contribute in the formation of soil?

Ans.- The process of breaking down of big pieces of rocks into tiny pieces by the heat of the Sun, moving air and running water is called weathering. Soil is formed when the weathered tiny pieces of rocks mix with organic matter and minerals.

Q2.- Write any three ways by which we can protect soil.

Ans.- Following are the ways by which we can protect soil :

(i) The number of trees planted should be more than the number of cut down trees.

(ii) Grazing animals should not be allowed to graze on the same area of land continuously for a long time, because overgrazing reduces the fertility of soil.

(ii) We should grow different types of crops in the same field to maintain fertility of soil. This is called crop rotation.

(iii) Step farming

(v) Building dams, embankments also help to protect soil.