St. Andrews Scots School

Adjacent Navniti Apartment, Patparganj, Delhi–92
Session: 2026 –2027
SUBJECT- SCIENCE

Class: V Topic: Soil Erosion and Conservation L-11

- Reading of the chapter
- Explanation (will be done in class)

Book Exercises

CHECKPOINT 1

State True or False

1. F
2. T
3. F
4. T
5. F

CHECKPOINT 2

1. SE
2. SC
3. SC
4. SC
5. SE

EXERCISES

A . Fill in the blanks.

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1. Topsoil
2. Rocks
3. Silting
4. Terrace farming
5. Water

B. Write True or False.

1. T
2. F
3. F
4. F
5. T

C. Name the following.

1. Deforestation
2. Soil erosion
3. Landslide
4. Soil conservation
5. Weathering

D. Tick (✅) the correct answer.

1. (c)
2. (d)
3. (d)
4. (c)
5. (d)

Learn Defines from page no. 124

Notebook work

Write any 10 New words

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E. Answer the following questions.

Q1. What is weathering of rocks ? How do rocks break and wear away?

Ans. Weathering of rocks is a process by which rocks are broken into fine particles by wind and water. The large rocks are initially broken down into small pieces by natural events like earthquakes. This process is carried further by agents like temperature changes, frost, water, wind and living organisms.

Q2. Name and explain the different layers of soil.

Ans. Different layers of soil are the topsoil, the subsoil and the bedrock.

(a) **Topsoil**: Topsoil is the uppermost dark and most fertile layer of soil. It is rich in humus.

(b) **Subsoil**: Subsoil is found just below the topsoil. It is light coloured because it contains less amount of humus as compared to topsoil.

(c) **Bedrock**: Bedrock is a hard and non-porous layer of soil. It is formed of parent rock.

Q3. Which human activities cause soil erosion? Explain.

Ans. Following human activities cause soil erosion:

(a) **Deforestation**: When trees are cut down, soil becomes loose and is easily carried away by water or wind.

(b) **Overgrazing**: Overgrazing by animals in a particular area makes the land barren and causes soil erosion.

(c) **Excessive ploughing:** Ploughing of farmland loosens the soil which is easily carried by wind or water.

(d) **Unprotected soil:** Sometimes soil is left bare for a long time after harvesting. This unprotected soil can be easily blown away by water and wind.

Q4. What is silting?

Ans. Silting is the deposition of soil at the bottom of a river.

Q5. What are the effects of soil erosion?

Ans. Soil erosion makes the land barren. It causes floods, water pollution, famines, and landslides in hilly areas which can result in the loss of life and property.

Q6. What do you understand by soil pollution?

Ans. The accumulation of harmful chemicals, polythene bags, etc. in soil is called soil

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pollution.

Q7. What are the different ways by which soil gets polluted?

Ans. Soil gets polluted by following ways:

(a) Dumping of wastes into open areas.

(b) Releasing industrial wastes into the soil.

(c) Excessive use of pesticides, insecticides and chemical fertilisers by farmers.

(d) Dirty water seeps into the soil from wastes.

Q8. What is soil conservation? In what ways can soil be conserved?

Ans. The protection of soil from erosion is called soil conservation. Soil can be conserved by following ways:

(a) **Planting trees or afforestation**: Roots of plants hold the soil particles together and protect the soil from being carried away by wind or water.

(b) **Terrace farming**: On hill slopes, terrace farming is done. This reduces the speed of water and prevents the soil from being flown downhill.

(c**) By growing grass**: The grass has spreading roots. It covers the topsoil quickly and holds it firmly. This controls soil erosion.

(d) **Constructing dams and embankment**s: Dams and embankments are built on rivers to check soil erosion by floods or running water.

Think Zone (Give reasons)

Q1. Briju was advised not to leave his cattle in the same forest area for grazing regularly.

Ans. Cattle should not be made to graze at the same place regularly because this would make the land loose and bare leading to soil erosion.

Q2. Soil erosion is a cause of concern.

Ans. Soil erosion is a cause of concern because it makes land barren, leads to floods, water pollution, famines, landslides, etc. These calamities result in loss of life and property.

Draw the following

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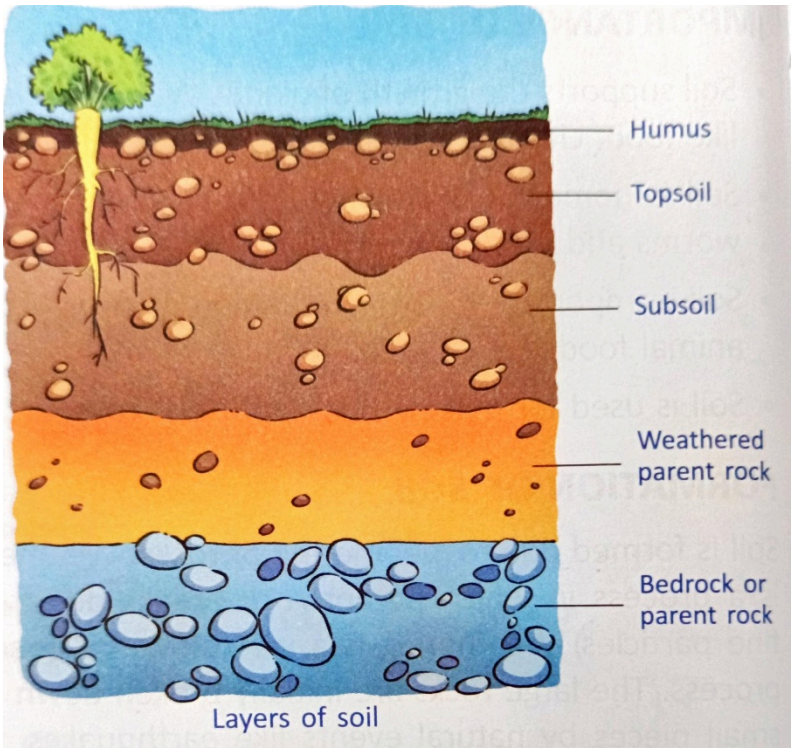
Layers of Soil



Layers of soil

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