

## L-6 Soil Erosion and Conservation

### I Technical words:

1. Soil conservation: Protection of soil against erosion.

2. Afforestation:

The process of growing more trees by planting saplings.

### II Short answers

1. List three effects of soil erosion.

Ans The effects of soil erosion are as follows:

- i) Loss of soil fertility
- ii) Shortage of food
- iii) flooding.

2. How does water act as an agent of soil erosion?

Ans i) Running water acts as an agent of soil erosion.

ii) Flooded rivers and running water removes the top soil.

iii) Running water washes the soil off the hill slopes.

3. How is man responsible for soil erosion?

Ans i) When trees are cut down the soil becomes loose and is easily carried away.

ii) Ploughing of hill slopes is another human factor that leads to soil erosion.

iii) Overgrazing by cattle also causes soil erosion.

4. What are cover crops?

Ans Cover crops are crops such as grass and creeper grown to prevent soil erosion after harvesting and before raising the next crop.

### III Long Answers:

1. List some ways by which soil can be conserved.

Ans Soil can be conserved by

a) afforestation - growing trees

b) growing cover crops in plants such as grass and creepers.

c) cutting the hill slopes into steps or terraces.

d) by building embankments along river banks



#### IV HOTS

1. Ramu, the gardener, is trying to pull out weeds. However, he has to apply great force. Why do you think he has to apply so much force?

Ans Ramu has to apply great force in pulling out weeds because the roots of the weeds firmly hold the soil particles together.

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## L-7 Rocks and Minerals

### I Technical words:

#### 1. Magma:

Hot liquid rock that lies in huge underground pockets of the earth.

#### 2. Lava:

The magma that reaches the surface of the earth.

### II Short answers:

#### 1. How are igneous rocks formed?

Ans Igneous rocks are formed by the cooling and hardening of hot liquid rock material called magma.

#### 2. What are ores? Name any four common ores.

Ans i) Some metals can be profitably obtained from metallic minerals and these metallic minerals are called ores.

ii) The four common ores are haematite, bauxite, pyrite and calamine.



3. Why is Petroleum called a fossil fuel?  
Ans Petroleum is called fossil fuel because it is formed from dead remains of ancient land and sea creatures.

4. What is metamorphism? Which kind of rocks are formed due to metamorphism?  
Ans i) The process of changing of structure or composition of existing rocks due to heat, pressure or other natural agencies is called metamorphism.

ii) Rocks such as slate, marble, quartzite and gneiss are formed due to metamorphism.

### III Long Answer:

1. Why are coal and petroleum important to man?

Ans \* Coal and petroleum are important to us because they contribute greatly to our total energy supply and are used as a fuel

- a) for cooking
- b) for heating
- c) for producing electricity
- d) in steam engines and ...
- e) in blast furnaces.

\* Petroleum is also used as a fuel in different forms. It is also used for dry-cleaning, for making lubricating oil, printing ink and medicines.

#### IV HOTS

1. Why do you think dentist use powdered pumice to polish teeth?

Ans i) Dentists use powdered pumice because it is soft, abrasive and light weight.

ii) It can remove stains without damaging the enamel of the teeth.

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