

# SHREERAM MODEL SCHOOL

**V -Science**

## **ASSIGNMENT**

**Chapter: 12, Soil Erosion and Conservation**

### **DEFINES**

<b>1. Deforestation</b>	cutting down trees in large number.
<b>2. Soil erosion</b>	carrying away of the top fertile layer of soil
<b>3. Soil conservation</b>	protection of soil from erosion
<b>4. Terrace farming</b>	farming done in the steps on hill slopes
<b>5. Afforestation</b>	planting trees in large numbers

### **GIVE ONE WORD**

<b>S.N.</b>	<b>Question</b>	<b>Answer</b>
1	Name the process due to which rocks are broken by action of sun, rain or wind.	Weathering
2.	Plants receive all the nutrients from ____	topsoil
3	In which areas terrace farming is a good measure to reduce soil erosion?	Hills
4	The uppermost layer of the earth is called ____	soil
5	The factors that are responsible for soil erosion are known as the _____	agents of soil erosion
6	_____ supports and holds the plants.	Soil
7	Name some human activities responsible for soil erosion.	Deforestation, overgrazing by cattle, ploughing of hill sides

8	Name few causes of soil erosion.	Wind, running water and human activities
9	What is the main medium of growing plants on the earth?	Soil
10	What are the natural agents of soil erosion?	Water and wind

### **ANSWER IN ONE LINE**

<b>1</b>	<b>How is soil formed?</b>
<b>Ans.</b>	Soil is formed by a long process of breaking of rocks due to the heat of the sun, cold water and wind.
<b>2</b>	<b>What is soil erosion? What are its agents?</b>
<b>Ans.</b>	The process of carrying away of the top fertile layer of soil is called <b>soil erosion</b> . Its agents are: a) <b>Natural agents:</b> water and wind b) <b>Human activities:</b> deforestation, overgrazing by cattle and ploughing of hill sides.
<b>3.</b>	<b>In what ways is man responsible for increase in soil erosion?</b>
<b>Ans.</b>	In the following ways the human is responsible for soil erosion 1) When the <b>trees are cut</b> , the soil becomes loose. It is then easily carried away by wind and water. 2) <b>Overgrazing</b> by cattle makes the land bare. This results in soil erosion. 3) <b>Ploughing of hills</b> for cultivation also loosens the soil and increases the risk of erosion by wind.
<b>4</b>	<b>What is terrace farming? How does it prevent soil erosion?</b>
<b>Ans.</b>	Terrace farming is done in the hills. The slope is cut into steps. This reduces the speed of flowing water. Soil eroded from one step gets deposited on the next. This reduces soil erosion.

<b>5</b>	<b>List four measures to conserve soil.</b>
<b>Ans</b>	<ol style="list-style-type: none"> <li>1. <b>Afforestation:</b> Trees should be planted in large number.</li> <li>2. Avoid leaving the <b>soil bare</b> and grow suitable crops.</li> <li>3. More trees should be grown at slopes of mountains.</li> <li>4. <b>Overgrazing</b> by the cattle should be prevented.</li> </ol>
<b>6</b>	<b>The fertility of soil is lost due to soil erosion. Give reason.</b>
<b>Ans.</b>	Topsoil is the most fertile layer of the soil. It has humus, which is very necessary for the growth of plants. Sometimes, this topsoil is carried away by wind, water or human activities results in infertility of soil.
<b>7</b>	<b>Embankments are built near rivers. Give reason.</b>
<b>Ans.</b>	Embankments are built near rivers so that river water is unable to flood the nearby fields. Soil is, thus, conserved from erosion through water.
<b>8</b>	<b>Seasonal vegetables and pulses should be grown after a crop has been harvested. Give reason.</b>
<b>Ans.</b>	The farmland remains bare when crops are harvested. The fields should not be left bare. Seasonal vegetables and pulses should be grown. The roots of these plants would hold the soil particles together and prevent the soil from being blown away. ..
<b>9</b>	<b>Trees prevent soil erosion. Give reason.</b>
<b>Ans</b>	Trees and plants lesson soil erosion. Their roots prevent water and wind from blowing away the soil. So, planting more trees is an effective way of reducing soil erosion.
<b>10.</b>	<b>How do forests help in soil conservation?</b>
<b>Ans.</b>	Forests which grow on soil bring rain and support various plant and animal activities.