

Subject: Science

Changes In Our Environment

Date:21.09.22

Book Exercise

Check points

1. Water vapour is the largest contributor to the **greenhouse effect**.
2. Ozone is the **Troposphere** layer of the atmosphere causes greenhouse effect.
3. The overall increase in temperature of the earth's atmosphere due to increase of the greenhouse gases is called **global warming**

A. Tick the the correct answer

1. Which of the following is an example of human activities affecting the environment?
a) Flying kites b) **dumping garbage's** c) walking home d) playing in the park
2. Which of the following is not a greenhouse gas?
a) methane b) **nitrogen** c) carbon dioxide d) ozone
3. Which could happen as a result of global warming?
a) Glaciers will melt b) ocean level will rise
c) **both a and b** d) neither a nor b
4. What should we do to reduce pollution in the environment?
a) reduce b) recycle c) reuse d) **all the above**

B. Fill in the blanks

1. The gases that causes greenhouse effect are called **greenhouse gases**
2. Increase in the Earth's temperature due to greenhouse effect is called **global warming**.
3. We should carry a **cloth** bag when we go for shopping.
4. We should use public transport such as **buses** and **trains** instead of cars to reduce the use of **fuel**.

C. Give one word answer

1. The addition of harmful substances to the atmosphere - **pollution**
2. Cutting trees and forest to make land available for human activities - **deforestation**
3. The process in which old items are used again to create new things – **Recycle**

D. Answer the following

1. What do you understand by green house effect? List 5 greenhouse gases.

Ans: The earth's surface traps the Sun's energy and becomes warm. When the surface cools, it releases the heat back into the air. The atmosphere does not allow this heat to escape entirely into the space. Some of the gas in air, such as carbon dioxide and water vapour, trap some of this heat. This natural process is called the greenhouse effect. Carbon dioxide, water vapour, methane, ozone and nitrous oxide are examples of greenhouse gases.

2. What are the sources of nitrous oxide gas in the environment?

Ans: Nitrous oxide is released into the atmosphere when fossil fuels, plants and animal matter are burned. Use of fertilisers in agricultural processes also produced this gas.

3. What is global warming? How is it harmful to the environment,?

Ans: The greenhouse effect causes warming of the earth's atmosphere. Due to excessive greenhouse gases, the atmosphere traps and sends back more heat towards the earth. This may result in a rise in the temperature on the earth. This is called global warming. The effects of global warming are already visible. Ice caps are melting and water level in the sea is rising. This may lead to flooding of low-lying areas near the sea in the future. The climate patterns may also change for the worse..

4. State five steps that you will follow to reduce pollution in your environment.

Ans: We can reduce pollution in the following ways

I) Use more of solar and wind energy will make us less dependent on fossil fuel. This will reduce the release of carbon dioxide into the atmosphere.

II) Using public transport such as buses and rickshaws instead of cars will also help in reducing the use of fuels.

III) We should use LED lights instead of mercury lights in our homes. Mercury lights cause pollution when discarded. LED lights also consume less electricity.

IV) Factories and vehicles should install machines to convert polluting gases into harmless ones before releasing them into the atmosphere.

V) Waste material from houses, offices and factories should be treated properly to convert them into non-polluting substances before releasing them into rivers or other waste bodies.

5. Name the three R's of environment protection. Give one example of each of them.

Ans: The three R's of environmental pollution are reduce, reuse and recycle

Reduce - We should use a bucket and mug to take a bath instead of using the shower

Reuse - We can reuse plastic bottles and cans for storing things

Recycle - Just as we sell old newspapers for recycling, we should also sell other unused things such as a metal scrap in our homes that are recyclable.

- Complete the think and answer in your own words.
- Project make a batch for reduce, reuse and recycle