

Class-VII

Geography, Chapter:-2

BOOK WORK

A. Choose the correct answer:-

1. The level of which gas rises due to the use of manures and fertilisers?
c. methane
2. Which gas absorbed by the plants?
a. carbon dioxide
3. Which gas mainly causes the depletion of the ozone layer?
a. CFC
4. What saves us from the ultraviolet rays?
c. ozone
5. Aerosols contain
b. CFCs

B. State whether the sentences are true or false:-

1. The ultraviolet rays do not harm us. **(False)**
2. Methane gas is a greenhouse gas. **(True)**
3. Planting trees can reduce global warming. **(True)**
4. Global warming prevents heavy downpour of rain. **(False)**
5. Water vapour is a greenhouse gas. **(True)**

C. Fill in the blanks:-

1. O₃ represents **Ozone**.
2. Mining results in the release of **methane gas** from under the ground.
3. UV rays cause **skin** cancer.
4. The greenhouse gases trap some of the **heat** rays before they can escape into the outer space.
5. The burning of fossil fuels emits the greenhouse gases.

Notebook Work

D. Answer the following questions in 1-2 sentences.

1. Name two greenhouse gases.

Ans.1 Carbon dioxide, methane and nitrous oxide are the major greenhouse gases.

2. Name a household product which emits CFCs.

Ans.2 Refrigerator is a household product which emits CFCs.

3. What has led to the lowering of the water table?

Ans.3 The unlimited use of water has led to the lowering of the water table.

4. What does CFC stand for?

Ans.4 CFC stand for Chlorofluorocarbons.

5. What causes heat strokes?

Ans.5 Heatstroke, condition caused by continuous exposure to high temperature and humidity for several hours.

E. Answer the following questions in 4-5 sentences:-

1. What are the health hazards of global warming?

2. What could be the consequences of the melting of the ice caps?

Ans.1 Skin cancer and cataract are the health hazards of global warming. A rise in the temperature is being caused by global warming which leading to the melting of the polar ice caps. This is leading to a rise in the sea level.

3. What is meant by the ozone layer?

Ans.3 Ozone (O₃) is a highly reactive gas containing three atoms of oxygen. High up in the stratosphere there is a layer of ozone gas which prevents the harmful ultraviolet rays of the Sun from entering the Earth's atmosphere and reaching the surface.

4. Can global warming bring about a climate change?

Ans.4 Yes that is very obvious that planet Earth is continuously being heated by different sources such as various gases in the atmosphere, ultraviolet rays of the Sun, etc. This process of warming up of the Earth's atmosphere due to various reasons of global warming.

5. How can global warming lead to heavy rainfall?

Ans.5 Increase in temperature cause increase in the rate of evaporation in the areas where there are plenty of water bodies. With the rise in temperature more rain falls in heavy downpours.

F. Answer the following questions in 8-10 sentences:-

1. What is meant by Greenhouse effect? Explain.

Ans.1 The surface of the Earth absorbs heat from the sunlight that it receives during the daytime. But after sunset when the Earth cools down, it gives out the heat in the form of infrared radiation. But there are some gases in the atmosphere which trap some of these infrared rays before they can escape into outer space. This trapping of heat makes the atmosphere warmer in a similar manner as a greenhouse does. This process of warming up of the atmosphere by the trapping heat is known as Greenhouse Effect.

2. What are the effects of human activities on the environment?

Ans.2 Humans impact the environment in several ways. Common effects include decreased water quality, increased pollution and greenhouse gas emissions, melting of ice, more severe droughts, over rainfall and flood, heat waves and hot weather, forest fires, health hazards, depletion of natural resources and contribution to global climate change.

3. How can we prevent ozone layer depletion?

Ans.3 We can prevent ozone layer depletion by these ways:-

- i. We should stop using old refrigerator and air-conditioning machines as these older cooling machines emit a lot of CFCs.
- ii. Use of aerosols containing CFCs should be stopped. While buying sprays one should check whether they contain CFC.
- iii. One should be careful while buying extinguishers.
- iv. Agriculture activities should be done using efficient fertilisers which do not emit harmful chemicals containing chlorine and bromine.

4. What is meant by ecological balance can be maintained?

Ans.4 The plants produce food from the energy of the sun. The plants are eaten by herbivores, which are in turn eaten by carnivores. The death of these organisms leads to the breaking down of the molecules present in their bodies by the bacteria and other microorganisms. This process is known as decomposition. After decomposition the simple molecular forms of the minerals get mixed up in the soil which is again used by the roots of the plants in photosynthesis. This is how the cycle is working continuously and is maintaining a balance or an equilibrium in the environment. This balance is known as the ecological balance.

5. What are the ways in which ecological balance can be maintained?

Ans.5 These are the ways in which ecological balance can be maintained:-

1. Careful management of the natural resources.
2. Effective population control.
3. Water protection.
4. Minimization of pollution levels.
5. Recycling materials helps in saving the natural resources.

H. Complete the table:-

The breaking down of the molecules in the bodies of the organisms after death is known as	decomposition.
Forest fires	Causes a large-scale destruction of flora and fauna.
Ozone layer is depleted by chemicals containing	CFCs.
The ecological balance	Is being disturbed due to human activities.
Excessive use of electricity creates pressure on	the natural resources.

J. Picture study:-

1. Melting of ice caps cause if global warming. This is leading to a rise in the sea level.
 2. If sea level keeps on rising then the day is not far when the coastal areas will be under water.
- K. Do only part 2. Prepare a poster on A4 size paper to show the causes and consequences of global warming.