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LS NO 5- Pollution and its Solutions

A) **Pre Activity: Draw the picture of World Earth Day and colour it. (use colour pencils)**



B) **Keywords:** undesirable, pollutant, ozone layer, Ammonia, escapes, asthma, pneumonia, Distracting, Greenhouse gases, temperatures, accumulates, contaminating, oil refineries, marine life, moisture, pesticides

C) **Short answer questions.**

1. Define pollution.

Ans. The contamination of air, water, soil and the environment by pollutants is known as pollution.

2. What are the various types of pollution?

Ans. There are four main types of pollution – Air Pollution, Water Pollution, Soil Pollution and Noise Pollution.

3. What is the top layer on the surface of the Earth called?

Ans. The top layer on the surface of earth is known as soil

D) **Long Answer Questions.**

1. What causes air pollution?

Ans1. **Causes of Air Pollution**

- When we burn coal and petroleum products (petrol, diesel, kerosene etc.), a poisonous gas called Sulphur Dioxide is produced.
- Vehicles release Carbon Monoxide and Nitrogen Oxide that are both harmful.
- Fertilisers used in agricultural activity result in the production of ammonia, which escapes into the air.
- Oil refineries release various kinds of gases, all of which are harmful to living organisms as well as the environment.
- Mining operations release dust and other harmful particles into the atmosphere thereby polluting it.

2. How can you prevent air pollution?

Ans 2. Prevention of Air Pollution • Planting more trees helps in keeping the air clean.

- Cycling or walking to near-by places can help us reduce air pollution.
- Using public transport such as buses and trains or carpooling cuts down the amount of pollution caused.

3. How does air pollution affect us?

Ans 3. Effects of Air Pollution

- Pollutants affect our lungs. This can lead to breathing problems such as Asthma as well as pneumonia.
- Heart problems occur due to the harmful chemicals in the air.
- An increase in greenhouse gases such as carbon dioxide, methane and nitrous oxide leads to a rise in global temperatures.
- The thinning of the ozone layer causes skin diseases and also affects the eyes.

4. How does water pollution affect us?

Ans 4. Effects of Water Pollution • Many diseases are spread by contaminated water. • The harmful chemicals mixed with water enter our bodies and they weaken our system over a period of time. • Pollution in our seas and oceans is harmful to marine life.

5. What is noise pollution?

Ans 5. It may not seem like pollution but loud noises are harmful to our health. Any sound or noise that is loud enough to disturb us or distract us contributes to Noise Pollution. If we live in an area of continuous loud noise, over a period of time our hearing will be affected. Noise pollution is extremely harmful to animals, who have a sharper sense of hearing than humans.

E) **POST ACTIVITY-**

Q) How can we keep our Earth clean?

Ans 6. Things that we can do to keep our earth clean:

- Do not litter anywhere – on the ground, under the ground or inside water.
- Put all waste – bits of paper, chewing gum, wrappers etc., into dustbins.
- Take a pledge not to use plastic bags– as much as you can. Instead, use paper bags, cloth bags, and jute or canvas bags.
- Organic waste – vegetable and fruit peels, leftover food can be used in so many ways. Vegetable and fruit peels can be used as compost (fertiliser) for your kitchen gardens or plants in your house.
- Do not cut trees and plants. Plant more trees.
- Do not waste water.
- Do not throw out electronic and electrical items if they are no longer working.

SUBJECT TEACHER

H.O.D.

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