

# **St. Andrews Scots Senior Secondary School**

**9<sup>th</sup> , Avenue, I.P Extension, Patparganj**

**Class-V**

**Sub-Science**

**Session- 2024- 2025**

**Lesson -13 Pollution**

- **Reading of the chapter**
- **Explanation (will be done in class)**  

**(Textbook exercise)**
  
- **A. Tick the correct answer.**
  1. **dumping of sewage in water bodies**
  2. **all of these**
  3. **hearing ailments**
  4. **presence of harmful gases in the air**
  
- **B.Fill in the blanks.**
  1. **environment**
  2. **noise pollution**
  3. **water**
  4. **Jaundice, Typhoid**
  
- **C. Match the following.**
  1. **(c) Jaundice**
  2. **(d) Asthma**
  3. **(a) Reduces of fertility of soil**
  4. **(b) Hearing problems**

• **D True or False.**

1. True
2. False
3. True
4. True

**(Notebook Work**

**New Words**

Any 10 words

**FIB**

1. Everything that surrounds us forms environment .
2. Excessive noise causes noise pollution.
3. When water bodies get contaminated with harmful substances, it is called water pollution.
4. Jaundice and Typhoid can be caused by drinking polluted water.

**Defines**

1. Asthma – A lung disorder that makes breathing difficult by causing the air passages to become narrow or blocked.
2. Bronchitis - An illness in which the bronchial tubes become infected or swollen resulting in coughing and difficulty in breathing.
3. Effluent - Liquid waste that is discharged from a factory.
4. Sewage - Waste matter discharge from houses, factories, hospitals, etc.

### Short Question/Answer

**1 What is air pollution?**

**Ans. The contamination of air by harmful substances such as smoke and dust is called air pollution.**

**2. How is acid rain formed?**

**Ans. The harmful gases like sulphur dioxide and nitrogen dioxide combine with water vapour form harmful acids. These acids fall with rain and this is called acid rain.**

**3. What is pollution ?**

**Ans. Pollution is the release of the substances into air, water or soil that are harmful to living things as well as non-living things.**

**4 Name three diseases caused due to water pollution.**

**Ans. Dysentery, Jaundice and Typhoid**

**5 Name the greenhouse gases.**

**Ans. Carbon dioxide, ozone, methane and CFCs (chlorofluorocarbons)**

### Long Question/Answer

**1 Explain global warming .**

**Ans. Due to global warming, the glaciers and ice sheets will melt which will add water to the sea level, hence causing many disasters such as flooding of coastal areas.**

**2 List the main causes of air pollution.**

**Ans. Some of the major causes of air pollution are—**

- **Smoke and harmful gases released by vehicles and factories.**
- **Using coal, wood and kerosene as fuel.**
- **Bursting of firecrackers.**
- **Volcanic activity**
- **Burning of garbage**
- **Accidental fires and forest fires**

**3 List the causes and effects of land pollution.**

**Ans. The causes of land pollution are—**

- **Dumping of wastes such as plastic bags.**
- **Excessive use of insecticides, pesticides and fertilizers.**
- **Excessive cutting of trees or deforestation.**

**The effects of land pollution are—**

- **It reduces the fertility of the land and may even make it barren.**
- **It harms the organisms living in the soil.**
- **It affects the growth of the plants.**

**4 How can we save our environment?**

**Ans. We can save our environment by---**

- **Using cleaner fuels such as CNG and LPG**
- **Afforestation**
- **Treating waste before their disposal in water bodies.**
- **Avoiding use of plastic bags.**
- **Using of wind, water and solar energy.**

**5 Explain the greenhouse effect.**

**Ans. During the daytime, the surface of the earth warms up in the sunlight. At night, surface of the earth cools down, releasing all the heat back into the air. But some of the heat gets trapped by the greenhouse gases keeping the earth warm and cozy. Use of chemicals in factories, deforestation, excess burning of fossil fuels has increased the atmospheric carbon dioxide and other greenhouse gases in the air making the greenhouse effect stronger.**

### **Give Reasons**

**1. Planting trees can reduce global warming. How?**

**Ans. Trees absorb the carbon dioxide from atmosphere which is a major cause of global warming.**

**2. Why should we not use loud sound horns?**

**Ans. They cause noise pollution.**

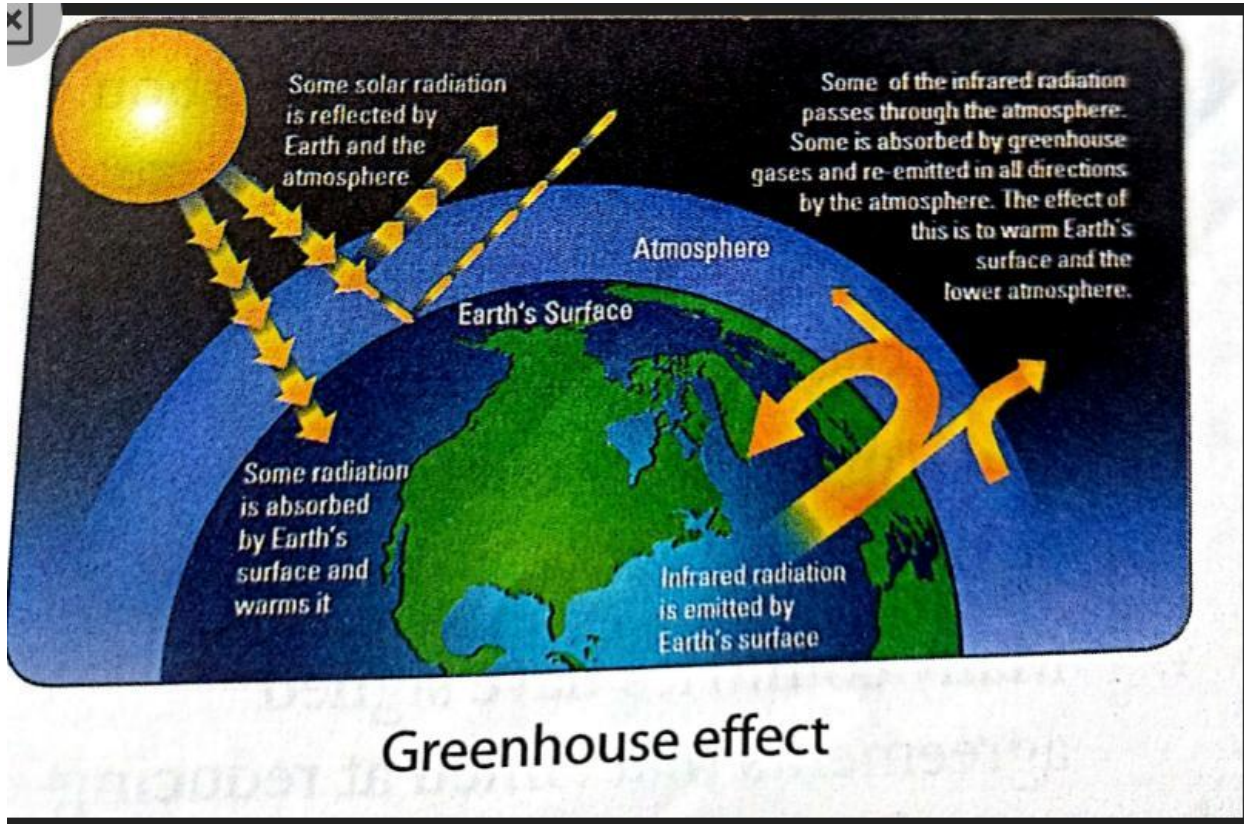
### **Activity**

**Make a poster on any one type of pollution in notebook.**

### **Dictation**

**Any 10 words**

### **Diagrams**



Greenhouse effect

