**Chapter 19**

**Pollution of Air**

1. Ram was walking in a garden when he saw that gardener had collected lot of dry leaves and was about to set fire to those leaves. Ram walked up to the gardener and asked him not to burn the dry leaves. Can you suggest the reason for Ram’s action.
2. In our country farmers are advised not to burn stubble in the field, why?
3. Fill in the blanks

a) The presence of many substances in undesirable concentrations causes \_\_\_\_\_\_\_\_.

1. The substances that contaminate air are called air \_\_\_\_\_\_\_\_\_\_\_\_.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_ is formed due to incomplete combustion of fuels
3. Carbon monoxide combines with haemoglobin to form a complex substance known as \_\_\_\_\_\_\_\_.
4. \_\_\_\_\_\_\_\_\_\_\_\_ is mainly produced by combustion of petrol.
5. When smoke containing oxides of nitrogen combines with air pollutants and fog, it forms\_\_\_\_.
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ causes the depletion of Ozone layer.
7. Both Sulphuric acid and \_\_\_\_\_\_\_\_\_\_ can dissolve marble to form salts.
8. \_\_\_\_\_\_\_\_\_\_ is the name given to special glass houses in which plants are grown.
9. Coal and \_\_\_\_\_\_\_ when burnt as domestic fuels, release \_\_\_\_\_\_\_\_\_\_ gas into atmosphere.
10. State whether given statements are true/false

a) The use of fossil fuels should be minimized.

b) Indiscriminate deforestation causes increase in the quantity of oxygen in the atmosphere

c) Acid rain has an adverse effect on aquatic life, particularly in the lakes.

d) High concentration of nitrogen dioxide in air is good for plants.

e) Carbon monoxide is formed by incomplete combustion of fuels

1. Define the following terms

a) Acid rain

b) Pollution

c) Pollutants

d) Green house effect

6. Give reason for the following

a) The temperature inside the greenhouse is higher than the temperature outside.

b) Formation of carboxy haemoglobin causes suffocation and ultimately death.

c) CFC’s have harmful effects and can cause cancer and damage to eyes

d) The Gangotri glacier in Himalayas has started melting.

7. What are major causes of air pollution?

8. How is carbon monoxide formed? How does formation of carbon monoxide affect the oxygen

Transport in the body?

9. What are ill effects of Nitrogen dioxide on the living organism?

10. In winter when I was driving a car on highway there was thick fog like layer in the atmosphere.

a) What is the name of this layer?

b) How is this layer formed?

c) How will this layer affect the various components of the environment?

11. Why are people advised not to use the foaming agents having CFCs?

12. What is acid rain? How is acid rain caused?

13. How the acid rain affects both plant and animal life?

14. What has caused the increase in the concentration of green- house gases in the atmosphere?

15. List 4 measures that can help to check the global warming.

16. State 5 methods that can be used to control air pollution.

17. How is the rapid increase in number of vehicles affecting the air quality?

18. We should use the alternative source of energy instead of the convential source of energy, why?

19. Complete this

a) CFCs from spray can

leads to

holes in the \_\_\_\_\_\_\_\_\_\_( a) \_\_\_\_\_\_ layer

results in reaching of \_\_\_\_\_\_\_\_\_\_ (b) \_\_\_ rays

may cause

skin cancer

20. What is the purpose of regular monitoring of air quality at various location by the various agencies help us?

21. What causes marble caner?

22. Why should we not burn crackers?

23. What is green house effect? What could be its effect on the environment?

**Chapter 20**

**Pollution of Water**

1. Few days back Ravi went for a walk on the banks of river Yamuna. After little while he was thirsty and wanted to drink water. When he tried to drink the water of the river he observed the water was greyish in colour and had a strange odour.
2. Comment on Ravi’s observation
3. What could be the possible cause of change in colour and strange smell in water?
4. In the rainy season there is rapid spread of certain diseases due to contaminated water. List 3 diseases that are caused because of contaminated water.
5. Fill in the blanks
6. \_\_\_\_\_\_ is defined as change in the normal properties of water due to presence of foreign materials.
7. Water pollution can be caused by human activities like \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_ of clothes in rivers and ponds.
8. Agricultural wastes like \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_ also pollute the underground water.
9. \_\_\_\_\_\_\_ from oil tankers often pollute the oceans causing damage to marine life.
10. The purpose of purification of water is to remove \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
11. Suspended particles are made \_\_\_\_\_\_\_\_\_\_ through their accumulation around alum.
12. Water must be sterilised by \_\_\_\_\_\_\_\_\_, to kill germs.
13. Do not leave the \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ while brushing the teeth.
14. The two major source of pollution are \_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_.
15. State whether given statements are true/false
16. Wash your car with tap water using pipe.
17. The principle of 3R’s –Reduce, Reuse and Recycle should be our guiding principle.
18. Boiling is quite a good method to purify water.
19. The domestic sewage of cities is often released into rivers.
20. The normal properties of water can change due to oil and grease floating on water surface.
21. Define the following terms
22. Water pollution
23. Potable water
24. Loading
25. Filtration
26. Chlorination
27. Give reasons for the following statements
28. There is offensive odour coming from lakes, rivers and ocean beaches
29. Oil spills damages marine life
30. Water can be purified by boiling
31. Chlorination can sterilise water.
32. The churned sewage is passed into tank with gentle slope.
33. What parameters need to be followed before water is supplied for drinking?
34. What is the purpose of purification of water? How is it done in our houses?
35. Fertilisers and pesticide help to increase crop production still farmers are advised to use them judiciously, why?
36. Complete the flow chart method What happens

Kills Germs

Methods of Purification

1. Make a diagram showing traditional filtering technique.
2. What promotes the growth of algae and bacteria in water bodies?
3. List down the various activities responsible for pollution of water.
4. How should sewage a major source of pollution of water be treated?
5. Why should the industrial waste be treated before being disposed into water bodies?
6. Make a poster suggesting at least 5 actions that can help in conservation of water?
7. We often carry water bottles along with us when we go out, why?
8. An oil tanker transporting oil across the ocean meets with an accident and oil starts leaking in the middle of ocean. What will happen and how will affect the environment?
9. How does filtration help in purification of water?
10. Why are people advised to use bucket and mug for bathing and not use shower?
11. Why should we conserve water?