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CLASS -8

SUBJECT -SCIENCE

DATE -08-01-2022

CHAPTER -AIR AND WATER POLLUTION

TOPIC :WATER POLLUTION

STUDY MATERIAL:-

Over 70 percent of the earth's surface is covered with water, yet clean water is rare. The widespread pollution by water pollutants Such as sewage, toxic industrial chemicals, silt,etc.,makes the water unfit for human consumption as Well as inhabitable for fish and animals.

Pollutants Such as city Sewage and industrial waste are discharge into the rivers, for lack of facilities to treat them .As a result the pollutants enter groundwater and other waterbodies and contaminate them.

The quality of water is judged by the presence of bacteria found in the faeces of Humans and other animals .The presence of these bacteria in water indicates contamination with faecal matter. Water contaminated with sewage may contain bacteria, viruses, fungi and parasites that cause diseases such as cholera, typhoid and jaundice.

The agricultural run-off or water from the fields that drain into rivers, is a major pollutant, since it contains fertilisers and pesticides. The presence of nutrients, such as phosphates and nitrates from fertilisers, in water cause excessive growth of aquatic plants and algae, which appear as a green scum on the surface of water in ponds and lakes. They use up the dissolved oxygen from water, which does not leave adequate oxygen for other aquatic organisms. The growth of these organisms consequently blocks light to deeper waters.

Several industries, such as oil refineries, paper factories, textile ,sugar mills and chemical factories, discharge harmful chemicals into rivers and streams. The chemicals include

Lead, mercury, chromium, arsenic and fluorides that are toxic to plants and animals This can be prevented since there are regulation that make it mandatory for industries to treat their waste before discharging it into waters.

**Note:-**

Write down all the above materials in class work copy and give the answer in Homework copy.

Solve the following questions on the basis of above study material.

Q. N. What is the percentage of the earth's surface which is covered with water ?

Q. N. 2.Write down the name of the water pollutants?

Q. N. 3 what is the cause of diseases such as cholera, typhoid and jaundice?

Q. N. 4.write down the name of the chemicals include (element ) that are toxic to plants and animals.

