

Tenden Heart High School

Section 33 B, Chandigarh

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Subject: Geography

Class: IX

Chapter 15 (continue)

(c) Burning Garbage

- It causes smoke that pollutes the atmosphere.
- This smoke contains harmful gases such as CO_2 and Nitrogen Oxide.
- The open burning of waste and incinerators also release Sulphur dioxide into the Atmosphere.
- Thus increasing quantity of these gases is causing the problem of Global Warming; which ^{is} ultimately creating many other environment related problems.

(d) Brick kiln

- It uses coal to burn the bricks.
- It gives lot of CO_2 and particulate matter.
- These gases and particulate matter are very harmful for humans, if they are inhaled as they cause many lung diseases.

e) Indoor Air Pollution

- Many heaters and ACs in offices and buildings are responsible for polluting the atmosphere.
- Many cleansing agents are ^{also} responsible for polluting the environment like Ammonia and chlorine.

f) Dead animals and plants

- They decompose to give methane and ammonia gas into the air.

g) Radioactive elements

- They emit α , β and γ rays in the air.

h) Water pollution

Water pollution is the contamination of water bodies. It is caused when water bodies such as rivers, lakes, oceans, groundwater etc get contaminated with Industrial, agricultural and human waste.

Sources of water pollution

i) Natural Sources

- It includes gases, animal waste, soil, minerals and pollutants that are soluble in water.
- The poisonous minerals like Nickel, cobalt, Lead and Mercury etc are also responsible.

(2) Human Resource

(a) Sewage and domestic waste

- This type of waste when poured into our rivers and oceans, they affect the marine plants and animals.
- ^{when} Domestic waste and the fertilizers are released in any water body, they cause Eutrophication, which is harmful for fishes.

(b) Industrial waste

- Industrial waste pollutes water sources by releasing toxic chemicals and pollutants into water bodies.
- These chemicals can harm aquatic life and humans and can make water unsafe for drinking and other domestic purposes.
- Industrial waste also creates Dead Zones in water, where there is so little oxygen that marine life can't survive.

(c) Agricultural Waste

- The Agricultural waste contains chemicals that contaminate surface water and groundwater.
- These chemicals contain nitrates and phosphates that go in surface water during rain and pollute the water source that lead to growth of algae and this causes breathing problems for marine organisms.

(d) Nuclear Waste :

- It contains radioactive elements such as Thorium, Uranium, Plutonium etc which contaminates groundwater and then may also enter our body through the food chain.

(e) Oil Spills :

- It creates film on the water surface that blocks sunlight and contaminates the water and also suffocates the organisms.
- It also lead to closure of Coastal fisheries in the affected part of ocean.
- It destroys the habitat of marine life like coral reefs, mangroves, marine organisms.

(f) Thermal Pollution

- This pollution occurs when water in coolant section of any factory is released in water source.
- This water when released in any water source decreases the oxygen level of the water source.
- This ultimately effects the breeding of marine organisms.

(g) Marine Pollution

- the introduction by man; directly or indirectly of substances into the marine environment, resulting in harm to living resources, hazards to human health, or hindrance to marine activities and reduction of amenities is called Marine Pollution.

Sources of marine pollution

- Marine commerce
- Industrial effluents joining seas and oceans
- Offshore Oil rigs.
- Recreational activities.
- Sewage and waste brought by sea.