

ENVIRONMENTAL POLLUTION















Types of pollution

Air Pollution
Water Pollution
Thermal Pollution
Soil Pollution
Radioactive Pollution

Air pollution

Imbalance in the quality of air so as to cause adverse affects on the living organisms existing on earth.

Causes of air

1.Natural sour Dollution

- Volcanic eruptions
- Forest fires
- Pollen grains of flowers

2.Man-made sources

- Deforestation
- Emission from vehicles
- Rapid industrialization
- Wars

Water Pollution

 Contamination of water by addition of undesirable organic, inorganic or biological substances to water sources - Natural sources: soil erosion, leaching of minerals from of rocks and decay matter. - Industrial effluents Destroys ecosystem and effects human health

Sources of water pollution

- Community waste waters
 Industrial wastes
 Agricultural sources
 Under ground water pollution
 Marine pollution
- Thermal pollution

Soil pollution

 Undesirable change in the physical, chemical or biological property which adversely affects its productivity Caused by dumping of wastes, agrochemicals and as indirect result of air pollution

Sources of Soil Pollution

- Domestic wastes
- Agricultural wastes
- Industrial wastes
- Excretory products
- Salination

Radioactive pollution

- Physical pollution that affects air, water and soil. Caused by ionizing radiations of harmful nature emitted from disintegrating atomic nuclei.
- The natural sources include cosmic rays that reaches the earth surface and radiations from radium 224, uranium 235 thorium 232 etc

Man made sources

- Nuclear weapons
- Reactors and Nuclear fuel
- Waste waters containing these wastes
- X-rays used in medical practices
- Ultra violet rays present in solar radiations

Effects

- Mutation
- Cancer
- Radioactive substances in food chain cause retarded growth and bone cancer.
- Increases infant mortality rate

Noise pollution

- Unwanted high pitch sound that pollutes the environment.
- Maximum tolerable intensity of sound is 85 decibels
- The main sources are automobiles, aero planes, loudspeakers, industries and other electro-mechanical devices.

Effects of noise pollution

- Damage to ear drum and impairment to hearing.
- Damages heart, liver and brain
- Emotional disturbances and behavioral changes
- Leads to anxiety and stress

Thermal Pollution

The term thermal pollution has been used to indicate the detrimental effects of heated effluents discharged by various power plants.

Causes of thermal pollution

Industrial effluents

