

4. Environmental pollution

Pollution:

It is the undesirable change of physical, chemical, biological in the form of soil, water & Air which is affect on all living organism.

There are two Major Class of Pollution.

- 1) Natural
- 2) Artificial

① Natural Pollution:

It is Caused by Nature imbalance

Ex:

Earthquak, Flood, Fire, cyclone, Sunami etc.

② Artificial & Manmade Pollution.

It is Caused by Human activities like vehicals, pesticides etc.

Ex:

Soil pollution, Air pollution, water pollution

Pollutant:

It is the substance in the form of solid, liquid and gaseous state. cause the pollution of the environment.

Ex:

Industrial waste, garbage, Radioactive waste

Types of pollutant

1) Degradable Pollutant

It is degraded by Natural process easily

Ex: Domestic waste, Agricultural waste, garbage, sewage etc.

2) Slowly degradable pollutant:

The pollutant which remains long time in the environment and it is not destroyed easily

Ex: Plastic, pesticides, aerosol etc.

3) Non-Degradable Pollutant:

It does not destroy by Natural processes is called Non-Degradable pollutant.

Ex: Lead, mercury, Nuclear process that is Nuclear fission or fusion.

Types of Pollution

① Soil Pollution

Soil it is the Contamination of dust organic & inorganic substances & which is lose the fertility or productivity of Soil

Causes of Soil pollution.

1) Soil Erosion

The Surface of top soil which is movement of one form to another from & loses fertility of soil

2) Industrial waste

The waste substances which are occur in the form of water & pass through in to the soil and decrease the quality of soil

3) Medical waste

The toxic material it does not degraded easily and Cause on soil pollution.

4) Nitritification

The Nitrate ions which are affect on soil and reduces the productivity of soil

Conservation of Soil Pollution

1] Keep healthy soil

The mostly use of natural or organic product in agriculture

2] Clean & Safe Water

The water does not contain chemical therefore does not reduces the soil fertility.

3] Wildlife Support

Increase the plantation which are helpful for wild animal and increases the productivity of soil.

4] Stop the pollution

Avoid the use of various chemicals the is pesticides fertilizer, automobiles than does not decrease the soil fertility.

② Water Pollution

Change occur that In the biological, physical and chemical to decrease the quality of water and affect on living Organism known as water pollution.

OR

The Addition of impurities and foreign substances to increase the quantity of water and decrease the quality of water.

Causes of water Pollution

1] Industrial waste

The formation of chemical reaction water is used as that is solvent and various types of chemicals added in the water and cause water pollution.

2] Agriculture waste.

for enhancing the crop yield by using fertilizer, pesticides, herbicides etc. and decrease the quality of water.

3] The other organic & inorganic substances that is Nitrate, Copper, Lead, Mercury these are Non degradable pollutants and spread various types of diseases into water.

Conservation of water Pollution

1. Screening Method.

The removal of floating part that is lighter dust particles of the surface of water by using screening method.

2. Sedimentation

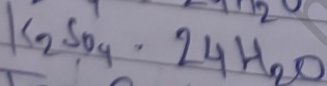
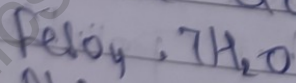
It is the removal of ~~slack~~ sludge in the water by using sedimentation method.

3. Filtration.

The removal of colloidal matter that is clay sand and lighter dust particles etc.

In the water by using Filtration method

Also the addition of chemicals like are



To removal of colloidal matter.

③ Air Pollution.

It is the Contamination of organic & inorganic harmful substances which are affect on all living organisms and causes Air pollution.

Causes of Air Pollution

1] Carbon Compound

The CO gas is releases from combustion of coal & CO gas is releases from auto mobiles and decrease the oxygen in the environment.

2] Sulphur compound

The thermal power plant which producing Heat & electricity in which by the releasing of gas that is H_2SO_4 , SO_2 , H_2SO_4 and causes air pollution.

3] Nitrogen compound

The gases releases are from industries and Automobiles that is NO , NO_2 & HNO_3

4] Ozone layer

from colling industries generated by CFC gas and which is affect on ozone layer and also Cause Air pollution

Conservation of Air pollution

Conservation of Air pollution

1] Absorption

The lighter waste dust particles it is absorbed by moisture & raindrop in the environment

2] Settling method

By the gravitational force large heavy pollutant fall down the ground and reduce the air pollution

3] Construction of chimneys

The industrial area by surrounded the construction of chimneys because unwanted pollutant gaseous are away from the industrial area and decrease the air pollution.

4] Development of green belt

Increase the plantation to surrounding industrial area & reduces the pollutant gaseous of that area.

④ noise pollution | sound pollution.

The unpleasant and high intensity of sound it is known as sound or noise pollution.

• Causes of sound pollution

1] Industrial Activities

By the formation of various types of reactions using instrument and these are cause sound pollution.

Ex : Textile industry, Steel Rolling industry etc.

2] Agriculture Activities

For the Enhancing crop yield use various types of machine and it cause by sound pollution.

Ex : Tractor.

3] Transport Activities

Railway, Aeroplanes, Automobiles and etc these are cause sound pollution.

The other Activities are Construction of dam, earthquake & blasting and these are causes of sound pollution.

• Conservation of sound pollution,

① The noise pollution occurring in that area by using earplug, headphone, noise helmet & ear muf etc reduce the sound pollution.

② The laws related of sound pollution are follows and decrease the sound pollution.

③ Avoid the heavy traffic in residential area & reduce the sound pollution.

• Control of pollution in state & central level

CPCB → Central pollution Control Board
SPCB → State Pollution Control Board.

- 1) Avoid the deforestation, urbanization, desertification to reduce the water, Air, Sound, Soil pollution.
- 2) plan & arrange the various types of program is state level or central level to regulate control of pollution.
- 3) follows the various types of law at central level or state level for the prevention of pollution.
- 4) organise the various types of training in which motivate to people for the conservation of Environment and control of pollution.
- 5) Collect the information of the internet to related to problems of pollution and research on that problems and conserve the surrounding Environment.