

## EFFECT OF AIR POLLUTION ON MAN -

- (i) Carbon monoxide forms a permanent compound with haemoglobin called carbonyl haemoglobin. Due to this oxygen carrying capacity of haemoglobin is lost. It causes headache and nausea. It promotes blindness.
- (ii) Sulphur dioxide combines with water to form sulphuric acid. It causes eye irritation in man. It erodes soft tissues and causes drying of mouth, scratching of throat and lung disease.
- (iii) PNA cause eye inflammation, respiratory disorder and cancer in man.
- (iv) Ozone causes edema i.e. inflammation of air sacs, injurious dryness of mucus of membrane. It may cause change in hair structure and stiffening of joints.
- (v) Chlorine forms harmful poly chlorinated compounds.
- (vi) Poisonous lead retards formation of haemoglobin and leads to anaemia.
- (vii) Air borne pollutants cause various allergic reaction, bronchitis, tuberculosis and lung cancer.

## EFFECT OF AIR POLLUTION ON PLANTS:-

- (i) Sulphur dioxide causes chlorosis (loss or reduction of chlorophyll).
- (ii) Fluorides cause necrosis (collapsing of leaf tissues).
- (iii) Oxides of nitrogen cause drooping of leaves and bud death. This results in stunted growth and small fruits.
- (iv) Hydrocarbons cause epinasty (Earlier fruit ripening or drooping of leaves, curling of petals, discolouration of sepals).
- (v) Ozone cause decay of chlorenchyma and increases the rate of transpiration.

Abundant growth of lichens or moss is an indication of clean air.

## EFFECTS OF AIR POLLUTION ON CLIMATE

(i) Increase in Carbon dioxide causes rise in environmental temperature. It will cause melting of polar ice and increase of water level in sea. It will pose danger of flooding of low lying coastal areas.

(ii) Aerosol containing fluorocarbons depletes ozone layer.