Green House Effect:-

⇒ Earth surface temp increased when CO_2 and H_2O absorb I.R radiations and then they release the radiations due to which temp of earth increases.

⇒ Increased in the earth surface temp. due to reemission of I-R radiation from green house gases such as CO_2 and H_2O is called Green house effect

⇒ It has both beneficial and disaster effect.

⇒ If conc. of CO_2 becomes double, then average temp. of earth increases upto 3°C which is a big drastic change.

~~Seas~~:- ⇒ Evaporation increases with increase of temp. and oceanic life disturbs ⇒ lower water has high temp and upper water has less temp. of Sea ⇒ By increasing earth temp upper layers temp. of sea increases and food supply stops from lower layer to upper layer ⇒ Green house effect is increase in surface of earth temp due to re-emission of IR-radiations from Green house gases i.e CO_2 and H_2O.

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→ gradually increase in earth surf temp. due to green gases

Effects of Green House Effect: / Global Warming.

1) Shifting of Agricultural lands towards poles.
2) Melting of glaciaures.
3) Floods
4) Shortage of food.
5) Increase of Sea-level.
6) Fast evaporation rate → More warming.
7) Drowing of Islands.
8) Disruption of food chain in ocean.

Causes:-

1) Burning of fossil fuels.
   - (a) like thermal power plants.
   - (b) Internal Combustion engines
   - (c) Industrial Units.
2) Deforestation
3) Soil Erosion
4) Urbanization of Agricultural lands i.e agricultural lands Converted in town etc

Prevention:-

1) Suitable Govt. policies.

2) Policies ⇒ (i) Industrial units outside the Urban areas.

(ii) Improved System of local transportation.

(iii) Use of renewable Energy resources.

(iv) Catalytic Conversion of Carbon oxides into other useful forms.

(v) plantation of trees.

Carbon Mono-Oxide: (Co)

Properties:

Colorless, odourless, tasteless

B.P = -192°c

Conc. gradually increases in atmosphere.

Sources of Co:-

1) Incomplete Combustion.

$2C + O_2 \longrightarrow 2CO$

Due to incomplete combustion air-fuel ratio is disturbed in industries or Engines.

2) Reaction of CO_2 with carbon at High temprature.

$$CO_2 + C \longrightarrow 2CO.$$

3) Agriculture Burning.

Natural Sources:

1. Forest fires.
2. Volcanoes.
3. Electric lightening.
4. Emmision from swamp or marshy areas.

Anthropogenic Source:

Burning of fossil fuels. About 70% is due to it.

Effects:

It causes suffocation due to

absorbed by plants/earth and re-emitted radiations can't move outside the green sheet. So plants convert more CO_2 into glucose more obtained.

CO_2 = 325 ppm (0.0325%).

↓ By doubling the conc.

↓ 3°C rise of temp.

Sink:

Microbial or microorganisms in soil absorb **Co** and convert it into **different forms.**

Prevention:-

(1) Replacement of gasoline with other fuels like CNG, or LPG.

(2) Use of renewable resources for powers such as solar Energy, wind E etc.

(3) **Modification** of Engines for complete combustion of fuels, i.e by adding Catalytic Converters.

i) → NO_x reduced and convert in N_2 gas.

ii) oxidation of No_2 at low temp. by using

(•) platinum as catalyst.

Extra:

- Lead gasoline to reduce knocking.
- Lead is poisonous for Platinum.
- Lead free gasoline may used.