

Date:- 31/08/2022

Examination Roll No.:- 21312915017

Name of Program:- B.Tech. (Information Tech.  
and Mathematical Innovation)

Semester:- I<sup>st</sup> Sem.

Unique Paper Code:- 32861107

Title of the Paper:- Environment Science &  
Ecosystem Management.

### Solution 5

→ Primary Air Pollutants :-

The pollutants that are emitted directly into the atmosphere is called Primary air Pollutant. The source can be either a natural process such as sandstorms, volcanic eruption & forest fire. or anthropogenic (influenced by humans) such as industrial and vehical emissions.

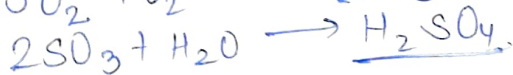
Examples :-

SO<sub>2</sub>, CO, etc.

→ Secondary Air Pollutants :-

A secondary pollutant is an air pollutant formed in the atmosphere as a result of the chemical or a physical interaction between the primary pollutants themselves or between the primary pollutants and other atmospheric components.

examples:-



Photochemical smog, Acid rain, etc.

## → Effects of Air Pollution :-

### (i) Effect on the flora (Plants) :-

Generally plants response to the air pollutants like,  $\text{SO}_2$ ,  $\text{O}_3$ ,  $\text{HNO}_2$ , etc.

- # Development of chlorotic and necrotic spots on leaves

- # Increase in leaf senescence and drop.

- # Reduce Photosynthesis

- # Reduce stomatal conductance

- # Reduce growth of plants.

### (ii) Effects on the fauna (mainly Humans) :-

$\text{SO}_x$ ,  $\text{NO}_x$ ,  $\text{SPM}$ , etc. in the air aggravate our respiratory track.

- # Diseases like Bronchitis, Asthma are increasing.

- # Prolonged exposure to these particles damages our lung tissues resulting in chronic respiratory diseases and cancer also.

### (iii) Ozone depletion is also one of the major effect of air pollution.