

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI



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Topic

**“Environmental Pollution With Special
Reference To Air Pollution”**

Presented By

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Pollution – Definition

“It can be defined as any undesirable change in the physical, chemical, biological characteristics of any component of the environment which can cause harm to life and property.”

Pollution Is The Introduction Of Contaminants Into An Environment That Causes Instability, Disorder, Harm Or Discomfort To The Ecosystem I.E. Physical Systems Or Living Organisms.

Pollution Can Take The Form Of Chemical Substances Or Energy, Such As Noise, Heat, Or Light. ...

Pollution

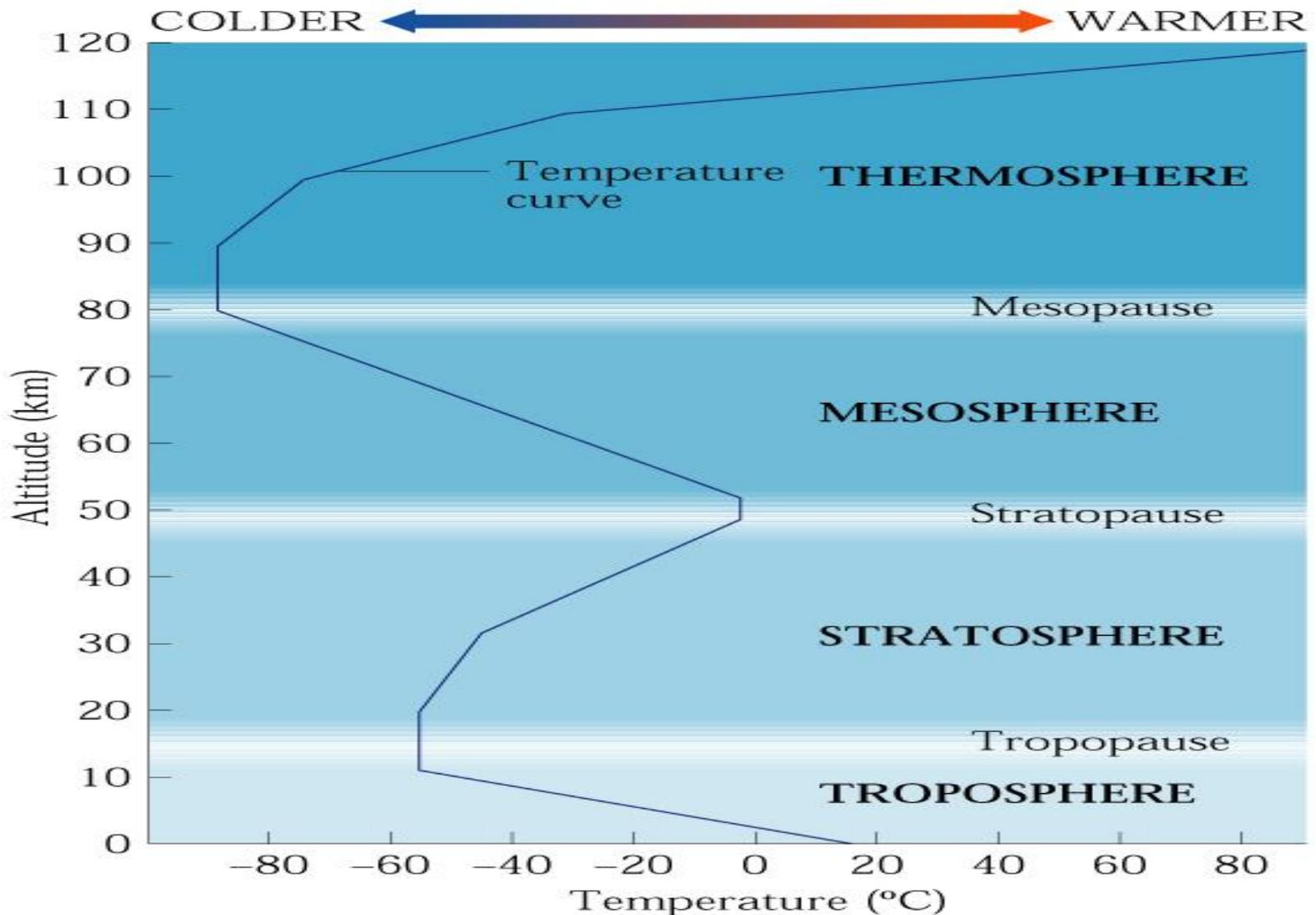
ATMOSPHERE:- Air Pollution

HYDROSPHERE:- Water Pollution

LITHOSPHERE:- Soil Pollution



Structure Of Atmosphere



What is mean by air pollution

Definition- “The disqualitative of natural air that causes adverse effects on living biota”

The composition of air

Atmospheric Composition

Nitrogen 78.08%

Oxygen 20.95%

Argon 0.93%

Carbon dioxide 0.04%



What is mean by pollutant

Definition- “The substance or materials which causes pollution or alter the quality of natural components is called pollutant”

The kinds of pollutants are:-

Solid :- The solid or rigid form components.

Liquid :- The liquid materials.

Gaseous:- The different kind of gases.

AIR POLLUTION



Sources :-

- ❖ Natural sources (e.g. Earth-quake, Volcano's, Natural fires, Forest fires, etc.)
- ❖ Artificial sources (Increase in population, Industrialization, fossil fuel burning, automobiles, etc.)

Which are air pollutants

There are different kind of air pollutants which are responsible to cause air pollution.

Solids :- particulates, pollen grains, aerosols, etc.

Gases :- CO_x , NO_x , SO_x , CH_4 , H_2S , etc.

Effects of air pollution on human being

1. Irritation of eyes.
2. Damage to respiratory system.
3. It causes leukemia (blood cancer)
4. It causes asthmatic diseases.
5. It may cause skin cancers.
6. Skin burning and skin aging.

Effects on plants

1. It causes chlorosis(chlorophyll destruction)
2. Necrosis (destruction of tissue)
3. Epinasty (downward movement of leaf)
4. Brown spot formation on leaf
5. Abscission - Dropping of leaf

Effects on sculptures and monuments

1. Corrosion of metals and rubber
2. Rusting of rocks such as marbles

Effects on animals

Respiratory disorders may causes to animals and carcinogenic diseases may be possible.



Control and preventive measures

Use of pollution control techniques at the source.

- Fuel Selection And Utilization.
- Process modifications and Equipments.
- Site Selection And Zoning

Use of Alternative Fuel (Renewable Energy)

Afforestation / Reforestation programs

Proper garbage disposal

Through Law

The Air (Prevention and control of pollution) act, 29 March 1981 an act of the parliament of India and it was amended in 1987



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A lush, green bamboo forest with tall, slender stalks and dense foliage. In the background, a traditional Chinese building with a multi-tiered roof is visible through the trees. The overall scene is serene and natural.

“SAVE TREES & SAVE LIFE”

THANK YOU