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Class: VII

Atmosphere (continue)

Mesosphere:

- It is the middle layer of Earth's Atmosphere
- It extends from 50 to 80 kms.
- In this layer temperature decreases with increase in height.
- It is the coldest layer of Earth's Atmosphere and temperature here becomes -80°C .
- Meteors from space mostly burn in this layer, creating Shooting Stars.
- This layer ends at Mesopause.

Thermosphere

- It is the uppermost layer of Earth's Atmosphere.
- It extends from 80 kms to upper limit of Atmosphere.
- In this layer temperature increases rapidly and it cannot be measured due to low density.

This layer is divided into two parts:

(a) Inosphere:

- It extends from 80 to 640 kms.
- It is divided into D layer, E layer, F layer and G layer.
- It helps in radio communication.
- This layer disappears with sunset.

(b) Exosphere

- It is the outermost layer of the Earth's Atmosphere.
- It extends beyond 640 kms.
- It has pre dominance of hydrogen and helium.
- The temperature in this layer reaches upto 6000°C .
- The density of this layer is very low.

Green House Effect

→ It is a process by which gases such as carbon dioxide, methane, N_2O etc traps the heat and makes the Earth warm.

Causes of Greenhouse Effect

- excessive burning of Fossil Fuels
- Deforestation on large scale
- excessive use of fertilizers
- untreated Industrial Waste and Landfills

Global Warming

It means the rise in the mean global temperature to a level where it affects the life on the Earth.

Causes of Ozone Depletion

- Too much use of CFCs
- more emission of Greenhouse Gases.
- Air transport and Space Shuttle launch
- Nuclear tests
- Volcanic eruptions

Effects of Ozone Depletion

- It will fail in UV rays absorption.
- It will lead to damage of plant life, human life, marine life.
- Skin Cancers and Eye problems are caused in humans.
- oceanic food chain is destroyed.

Effort to prevent ozone depletion

- Limit private vehicle driving
- use ecofriendly products
- Avoid using pesticides
- Use 3R technique.

Impact of Global warming

- Melting of continental glaciers
- With this, rise in ocean level.
- With this, land will submerge under water
- With this, habitat of flora and fauna will get destroyed.
- There will be climate change.

Ways to Reduce Global warming

- Avoid using private vehicle
- Use more public transport
- Use Carpooling method
- Use Alternative source of energy like Solar, wind, Tidal etc.
- Follow 3R Method.
- Try to switch to an electric vehicle.