## <u> Chapter – 4 (Geography)</u>

## Class-- 7 AIR Structure of the

## atmosphere

Our atmosphere is divided into five layers which are: Troposphere, Stratosphere, Mesosphere, Thermosphere and Exosphere.

4.4	Exosphere	
	Thermosphere	
600 km	Mesosphere	372 miles
85 km	Stratosphere Ozone layer	53 miles
	Troposphere	
50 km		31 miles
25 km	Free T	ta miles
10 km		6 miles

Troposphere: It is the most

important layer of the atmosphere. The air we breathe exists here. It has the following features:

(1)Its average height is 13 km.

(2) Almost all the weather phenomena occur in this layer. The weather phenomena include: Rainfall, Fog, Hailstorm etc.

**Stratosphere**: This layer is just above the troposphere and has the following features:

- (1) It extends to a height of 50 km.
- (2) It is almost free from clouds and associated weather phenomena that occur in the troposphere.
- (3) It is most ideal for flying aeroplanes since it is free from weather phenomena.
- (4) It contains a layer of ozone gas which protects us from the harmful effect of ultraviolet rays from the sun. The

depletion of the ozone layer of late is a serious concern for all of us.

<u>Mesosphere</u>: It is the third layer of the atmosphere and it lies above the stratosphere. It extends upto a height of 80 km. The burning of meteorites on entering from space occurs in this layer.

**Thermosphere**: It is the fourth layer and the layer above the mesosphere. In this layer, temperature rises very rapidly with increase in height. Ionosphere is a part of this layer. Thermosphere has the following features:

(1)It extends between 80 to 400 km.

(2) It helps in radio transmission. This layer is responsible for reflecting back of the radio waves that are transmitted from the earth.

**Exosphere**: It is the uppermost layer of the atmosphere. It has very thin air. Light

gases like helium and hydrogen float into the space from here.

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