

Welland Gouldsmith School

**Class 7**

Geography

The Atmosphere

ANSWERS

1. Meanings :

- a) The earth is surrounded by an envelope of air which is called the atmosphere.
- b) The harmful radiations that comes from the sun to the earth.
- c) The natural process by which the atmosphere traps some of the sun's energy warming the earth enough to support life.

2. Fill in the blanks :

- a) unique, life
- b) carbondioxide, water
- c) four
- d) Radio signals
- e) Meteors, moon

3) Short Answers :

- a) A molecule is the smallest particle of a substance in a free state.
- b) Nitrogen amounts 78% , oxygen amounts 21% and other gases amount 1% of air.
- c) The atmosphere protects the earth from the cosmic rays. The next point is - the radio communications on the earth are possible as the upper layers of the atmosphere stop sound waves from escaping into space.
- d) Ionosphere and Exosphere.
- e) Troposphere, stratosphere, mesosphere, thermosphere.
- f) The ozone layer protects the earth from ultraviolet radiations from the sun.
- g) 80 - 600km (or above)
- h) Chloroflurococarbons.
- i) The permanent loss of forests and woodlands.
- j) Human activities like burning fossel fuels, cutting of trees etc, contributed greenhouse gases into the atmosphere leading to global warming.

4. Part - A (nos 2 to 7 and 10)

2. Nitrogen and oxygen

5. Ionosphere

6. Stratosphere

7. Nitrogen gas helps in the growth of living organisms mainly plants.

10. Methane and ozone.

Part - B ( nos 4 & 5 )

4. Impact of global warming :

- a) Change in weather will affect the crops, plants, animals and people.
- b) High temperature will make the water of the seas and oceans expand and the ice in the Antarctic and Greenland will flow into the sea and water level will rise. People of the coastal and plain land areas will suffer and also farmlands will be ruined because of floods.
- c) Changes in weather will affect crops grown in different parts of the world. The effect of this change in weather may lead to some countries in less food production hence many people could suffer from hunger.
- d) This change in weather due to global warming affects plants and animals all over the world and some populations will also be of greater risk.

5) Four ways to reduce global warming :

- 1. Plant more trees.
- 2. Ban on use of CFC's.
- 3. Use of energy efficient vehicles
- 4. Follow 3Rs - Reuse, Recycle and Reduce.