

❖ Answer the following question.

1. How is our atmosphere different from the atmospheres on Venus and Mars?

Ans. Earth's atmosphere is composed of various gases like oxygen, carbon dioxide, nitrogen, water vapour along with various gases in small quantities, hence making it a balanced composition which is livable than other planets. Planets like Venus and Mars have more than 95% of carbon dioxide in the air making the existence of life impossible.

2. How does the atmosphere act as a blanket?

Ans, ⇒ It maintains the consistency in temperature throughout the day making it a comfortable place to stay.

⇒ The ozone in the atmosphere is responsible for maintaining the temperature without letting the harmful ultra-violet ray effect.

3. What causes winds?

Ans. The uneven heating of the earth's surface is the main cause for the winds. On being heated more the air raises up and hence low pressure is created. Hence the air in high pressure occupy the low-pressure region causing the wind.

4. How are clouds formed?

Ans. During the day time in the presence of sunlight water from sources like well, lake, pond, sea, river and various other sources get evaporated and this water vapour rises up with the hot air. At a particular height, the air cools and the water vapour condenses to form minute droplets to form clouds.

5. List any three human activities that you think would lead to air pollution.

Ans. ⇒ Burning of fuels like petroleum, kerosene, and coal in the atmosphere

⇒ The smoke released from manufacturing industries

⇒ Smoke from vehicles

6. Why do organisms need water?

Ans. Organisms need water for

⇒ Every cellular process need water

⇒ Photosynthesis in plants

⇒ Transportation of substances in the body takes place through water by dissolving the contents in water.

⇒ Required minerals are transported in Terrestrial animals through water and even to eliminate waste from the body water is used.

7. What is the major source of fresh water in the city/town/village where you live?

Ans. ⇒ Rainfall

⇒ Underground water from wells

⇒ Water sources like pond, river, and lake

⇒ Snowfall

8. Do you know of any activity which may be polluting this water source?

Ans. ⇒ Dumping waste in the river

⇒ Factory waste

⇒ Sewage