

Class- VII

Sub- Geography

Ch- Air

1. Which gas in the atmosphere is responsible for the greenhouse effect?

- a) Oxygen
- b) Nitrogen
- c) Carbon dioxide
- d) Argon

2. Assertion (A): Oxygen is the most abundant gas in the Earth's atmosphere.

Reason (R): Plants release oxygen during photosynthesis.

3. Assertion (A): The troposphere is the densest layer of the atmosphere.

Reason (R): The troposphere contains most of the atmospheric water vapour and dust particles.

4. Statement 1: The greenhouse effect is necessary for maintaining Earth's temperature.

Statement 2: Excessive greenhouse gases in the atmosphere lead to global warming.

5. Hint: This layer of the atmosphere is crucial for flight as it is free from clouds and contains the ozone layer.

Question: Which layer of the atmosphere does this hint describe?

6. Which of the following statements is/are correct about the troposphere?

- i) It is the lowest layer of the atmosphere.
- ii) It contains the ozone layer that protects from UV rays.
- iii) Weather phenomena like rainfall and storms occur in this layer.
- iv) It extends up to 50 km above sea level.

- a) i and iii only
- b) ii and iv only
- c) i, ii, and iii only
- d) All of the above

7. Analyze the role of different atmospheric layers in protecting life on Earth. Discuss how the balance between these layers is crucial for sustaining life.

8. Despite being an essential component of weather phenomenon, temperature is not same everywhere in the earth. Explain some factors associated with the distribution of temperature.

9. Rainfall is one of the driving forces to affect the lives of human. Describe the effects of rainfall upon human lives.

10. When you are staying on a vacation at a sea coast. What type of reversal wind system you may witness on that location and why? Why are they known as local wind?

11. Draw the diagram of pressure belt and permanent wind system with proper labelling.