

Question 1. Fill in the blanks choosing the suitable words given in the bracket :

(more, breathing, smoke, environment, carbon dioxide, nitrogen, 50, one-fifth, air, rare)

- (1) There is air till a height of about **50** km from the earth.
- (2) The air at a greater height from the earth is **rare** than the air nearer to the earth.
- (3) If all the air was divided into five parts the oxygen in the air would equal **one-fifth** part.
- (4) There is **air** even in an empty container
- (5) The layers of air nearer the earth bear **more** weight than the upper layers.
- (6) Oxygen from air is used for **breathing** and burning.
- (7) Plants use **carbon dioxide** gas while preparing their food.
- (8) Burning that takes place in factories gives out **carbon dioxide**
- (9) The largest part of air is made up of a gas called **nitrogen**
- (10) We must not burn the wood from the **environment**

Question 2. Write whether the following sentences are True or False:

- (1) Water is lighter than air. **False**
- (2) The layers of air near earth surface are closely packed. **True**
- (3) The air at great heights is rare. **True**
- (4) There is never water vapour in the air. **False**
- (5) The atmosphere of earth is made up of air. **True**

Question 3. Match the following:

Column 'A'	Answers	Column 'B'
(1) Shape of the earth	like a ball	(a) contains water vapour
(2) Layers of the earth	atmosphere	(b) prepare food
(3) Plants on the earth	prepare food	(c) atmosphere
(4) Fuels on the earth	burning causes smoke	(d) like a ball
(5) Air on the earth	contains water vapour	(e) burning causes smoke

Question 4. Answer the following in one sentence each:

(1) What is an atmosphere?

Ans. The covering of air all around the earth is called the atmosphere

(2) Name of the constituent of air that helps in burning.

Ans. Oxygen is the constituent of air that helps in burning.

(3) Which gas is present in soda water?

Ans. Carbon Dioxide gas is present in soda water.

Question 5. Think and tell: (Textbook page 60)

(1) Name some things of everyday use in which air is filled under pressure.

Ans. Cycle rube, tyres of car, air cushion and air pillow.

(2) What is seen mixing with the air when wood or coal burns?

Ans. When wood or coal burns it gives out smoke and it is mixed with the air. Smoke may contain poisonous gases and particles

(3) What gets mixed with the air when water boils?

Ans. Water vapour gets mixed in the air when water boils.

(4) If we visit the hill stations why do we feel difficulty in breathing?

Ans. The layers of the air on a height become rarer. There is less amount of oxygen in the air. Therefore, if we visit the hill stations we feel difficulty in breathing.

Question 6. Answer the following questions in brief:

(1) Why is air at a greater heights in the atmosphere rare?

Ans. The air is thinner at higher altitudes because there are fewer air molecules as you go up. This makes breathing harder since there is less oxygen.

(3) How does plants reduce the carbon dioxide present in the air?

Ans. Plants take in carbon dioxide from the air and use it to make food during photosynthesis. This process helps lower carbon dioxide levels in the atmosphere.

Question 7. Find out (Textbook page 60)

Before drawing a medicine into a syringe why is plunger first pressed to the bottom of the barrel?

Ans. The plunger is first pressed to the bottom of the barrel to remove any air that might be present in the syringe. This helps in creating a vacuum inside the barrel, making it easier to draw the medicine into the syringe without any air bubbles