

ST THOMAS SCHOOL, DHURWA, RANCHI

SECOND TERM, SESSION 2020 – 2021

CLASS: IV SUBJECT: SCIENCE

Chapter 7 AIR (Answers)

Objective Type Questions

A. Choose the correct option.

- 1) b
- 2) b
- 3) d
- 4) b
- 5) d

B. Choose the correct option to fill in the blanks.

- 1) solids
- 2) Breeze
- 3) Weight
- 4) Water vapour
- 5) Oxygen
- 6) Ozone

C. To be done in the book by the children.

D. Write True/ False

- 1) False
- 2) True
- 3) True
- 4) False
- 5) True

E. Answer the following questions in short.

- 1) Anything that occupies space and has weight is called matter e.g. book, water, oxygen etc.
- 2) Solids are hard because the particles in them are closely packed.

- 3) The three properties of air are:
 - a) It has no definite shape or volume
 - b) It occupies space
 - c) It has weight

- 4) When air is heated, its particles start moving faster and spread out. This is called expansion of air.

- 5) The three uses of air are:
 - i) it is essential for burning
 - ii) it is used to fill tyres and balloons
 - iii) it is needed for breathing

- 6) Oxygen is essential for burning.

- 7) The smoke that comes from burning of fuels such as petrol and diesel in the engines of vehicles contribute to air pollution.

F) Answer the following questions in detail.

1) To prove that air expands on heating-

- i) take a balloon and stretch it over the neck of bottle
- ii) place this bottle in a bowl of hot water
- iii) soon the balloon will start inflating

If we remove the bottle from hot water bowl, the balloon will deflate again. Thus, we can conclude that hot air expands.

2) Air is a mixture of gases. It contains three main gases – nitrogen, oxygen and carbon dioxide. It also contains water vapour, dust particles, smoke and germs.

3) The different ways to prevent air pollution-

i) plant more trees

ii) avoid burning garden waste, trash and other materials

iii) save electricity save electricity

Picture – based Question

Answer) In jar 2 the candle will burn for longer time because there is more air in jar 2 in comparison to jar 1.

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St.Thomas School, Dhurwa, Ranchi.

Second Term 2020-2021

Std-4

Subject- Science

Chapter-7 Air

Practice Paper -02 (with model answer)

Q1. Name these.

1. The layer of air that surrounds the earth.
Ans- Atmosphere.
2. The state of matter in which particles are closely/tightly packed.
Ans- Solid.
3. The state of matter in which particles are loosely packed.
Ans- Liquid.
4. The state of matter in which particles are very loosely packed.
Ans- Gas.
5. Moving air is called as.
Ans-Wind.
6. A gentle wind is called as.
Ans-Breeze.
7. The process by which air is taken in and given out of the body.
Ans-Breathing.
8. The air we breathe in is termed as.
Ans- Inhaled air.
9. The air we breathe out is termed as.
Ans- Exhaled air.
10. The presence of smoke and dust in air.
Ans- Air pollution.

Q2. Give two examples for each of the following

1. Gases present in the air.
 - a. Oxygen
 - b. Nitrogen
2. Respiratory diseases caused by air pollution.
 - a. Asthma
 - b. Bronchitis
3. Matter.
 - a. Air
 - b. Book
 - c. Clothes.

Q3. Match the columns. (Do straight matching)

Column A	Column B
1. Oxygen (c)	a. plants use it to make food.
2. Carbon dioxide (a)	b. stronger wind.
3. Air (e)	c. helps in burning.
4. Storm (b)	d. used to make fertilizer
5. Nitrogen (d)	e. mixture of gases.

Q4. What is the difference between inhaled and exhaled air.

a) Inhaled air

1. The air we breathe in is called Inhaled air.
2. Inhaled air contains more oxygen.

Exhaled air

1. The air we breathe out is called exhaled air.
2. Exhaled air contains more carbon dioxide.

b. Solids

The particles in solid are closely packed.

Liquids

The particles in liquid are loosely packed.

Gases

The particles in a gas are very loosely packed.

