

Class: 6

Chemistry: Chapter-2
The Nature of Matter(States of Matter)
Answersheet

I. Name the following:

1. Atom 2. Molecule. 3. Matter. 4. Paper 5. Wood.

II. Fill in the blanks:

1. Mass 2. Definite. 3. Solids. 4. Solids. 5. Gas

III. True or false:

1. False. 2. True. 3. True. 4. True. 5. False

IV Complete the following exercises given in the book:

Page 33 worksheet:

Q I. Fill in the blanks:

1. A Molecule. 2. Gases. 3. Gas 4. Volume , shape 5. Compressed

QII. Match the following:

- 1-c. 2-e. 3-a. 4-b. 5-d

III. True or false

1. True. 2. True 3. False 4. False. 5. True

Page 35 ,36 and 37:

A. Tick the correct answer:

- 1-a. 2-c. 3-c. 4-a. 5-c. 6-a. 7-a. 8-a

B. Fill in the blanks:

1. Solid liquid and gas. 2. Lose. 3. Solids. 4. Fixed. 5. Gas. 6. Mass, space
7. Gases

C. True or false. Correct the false statements:

1. True
2. True.
3. False. Nylon and steel are man made materials.
4. True.
5. True .
6. False. John Dalton discovered that a molecule is made up of smaller particles called atoms.

D. Find the odd one out giving reason:

1. Water. It is a liquid, while the others are gases.

2. Protons. These are sub-atomic particles where as the others are three States of matter.
3. Atom. it is the smallest particle of matter where as the others are sub- atomic particles.
4. Naphthalene. It is a sublimating substance while the others are three different states of water.
5. Sublimation. Because in this process solid directly changes into gaseous state skipping the liquid state.

E. Match the columns:

1-f. 2-d. 3-e. 4-b. 5-c. 6-a

F. Give reasons:

- 1.Gases have low densities. (Refer to conceptual Questions: ans 4)
2. Heat energy bring change of state.(Refer to conceptual Questions: ans 6)
3. Solids do not flow.(Refer to Conceptual Questions: ans 2)
4. Liquids can be compressed.(Refer to Conceptual Questions: ans 3)

G. Answer the following questions:

- 1.Matter is anything which occupies space, has weight and can be perceived by our senses.
- 2.Solids cannot be compressed because the molecules are closely packed and they have least intermolecular spaces.
3. Page 28 difference in tabular form
4. Yes. Atom is divisible into electrons, protons and neutrons.
5. Page 30 - Activity 4
- 6.The force of attraction between the molecules is very strong in solids, lesser in liquids and least in gases.
7. Page 30 - Activity 5
8. Page 29 - The kinetic theory of matter: Definition and all the points.
