

BIJENDRA PUBLIC SCHOOL, PURNEA

Class : 5

Subject : Science

Chapter 7 States of Matter

A. Objective - type questions.

1. Circle the correct answer

a. This is An example of physical change.

Ans. tearing paper into pieces.

b. The particles are far apart in it and therefore move freely.

Ans. Gases

c. The separation method used to separate soluble substance from insoluble one.

Ans. Filtration

d. Boiling of an egg shows this type of change.

Ans. Chemical change

2. Match the following.

a. Physical change - Boiling water
Mixing of sand and water

b. Chemical change - Cooking eggs
Ripening of a fruit

3. Rewrite these sentences correctly.

a. No new substance is produced in a chemical change.

Ans. No new substance is produced in a physical change.

b. Filtration is used to separate salt and stones mixed together.

Ans. Hand - picking is used to separate salt and stones mixed together.

c. Hand picking is used to separate salt and sand mixed together.

Ans. Filtration is used to separate salt and sand mixed together.

4. Tick the odd one.

a. Stone, Solid, Liquid, Gas

Ans. Stone

b. Adding water to milk, Cooking rice, Evaporation, Condensation.

Ans. Cooking rice

c. Evaporation, Changing milk to curd, Boiling eggs, Cooking vegetables.

Ans. Evaporation

5. Give one word answer.

a. The change in which no new substances are produced **physical change**

b. The method of separating out one substance from another simply by picking them out **Handpicking.**

c. The process by which two substances (generally an insoluble solid and a liquid) are separated by passing the mix through a strainer or filter **filtration.**

d. The change in which one or more new substances are produced **chemical change.**

B. Subjective - type questions.

1. What do you understand by physical change?

Ans. The change in which no new substance is produced is called a physical change.
For example - tearing paper.

2. What is filtration?

Ans. The process by which two substances (an insoluble solid and a liquid) are separated by passing the mix through a filter is called filtration.

3. Define chemical change. Give any one example.

Ans. A change in which one or more new substance are produced is called a chemical change. For example - Cooking vegetables.

4. Name the method of separation used.

i. When the size, shape or colour of substance are different from each other

Hand-picking

ii. When one substance is soluble and the other substance is insoluble

Filtration.

C. Long answer questions.

1. Differentiate between a physical change and a chemical change.

Ans. The difference between a physical change and a chemical change are -
Physical change -

i. The change in which no new substance is formed is called a physical change.

ii. A material may change its shape without new compounds being formed.

Chemical change -

i. The change in which one or more new substances are formed is called a chemical change.

ii. A material not only changes its shape but also changes into a new substances.

2. What kind of substances can be separated-

i. by filtration

ii. by hand picking?

i. Filtration - This method is used for a mixture in which one substance is soluble and the other substance is insoluble. The two substances are separated by passing the mixture through a strainer or filter.

ii. by hand picking - The substances whose size, shape or colour are different from each other can be separated by hand - picking.

3. Briefly describe how a material may changes shape or form while undergoing a physical change.

Ans. This can be done as for example - Water. If a cup of water is placed in the freezer, the water changes from a liquid to a solid. The solid form of water is ice. Here, water remains water, it only changes its form from a liquid to a solid.

4. Define matter. Briefly describe the different states of matter.

Ans. Matter is something that has mass and takes up space. The different states of matter are.

i. Solids - The particles are tightly packed.

ii. Liquids - The particles are loosely packed.

iii. Gas - The particles are very loosely packed.