

DOON PUBLIG SCHOOL

(C.B.S.E. Affiliation No. 1030502)

Class 10 (2021-22)

Chemistry

Chapter 1

Worksheet -1

Topic - chemical reactions & equations

Holiday homework

Question 1.

Which of following is not a physical change?

- (A) Boiling of water to give water vapour
- (B) melting of ice to give water
- (C) dissolution of salt in water
- (D) combustion of LPG

Question 2.

Which method is used to balance chemical

equations?

Question 3.

What is chemical reaction? What observation take place during chemical reaction?

Question 4.

Define following -

(i) Reactant (ii) product

Question 5.

Write the formula of following -

(A) Blue vitriol

(B) Green vitriol

(C) white vitriol

(D) king of acids

Question 6.

Balance the following chemical equations -

MgCl₂

Na + s -----> Na₂S

$$N_2 + H_2$$
 -----> NH_3

Fe +
$$H_2O$$

 $+ H_2O$ -----> Fe_3O_{4+} H_2

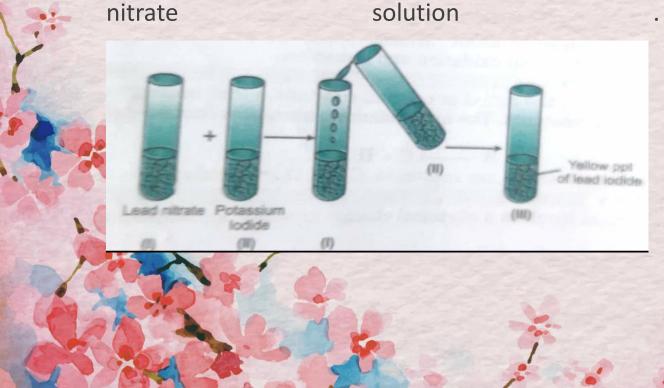
Question 7.

Write the balanced equation to represent the following statements:

- (i) carbon burns in air to form carbon dioxide
- (ii) A piece of sodium metal on putting in water forms caustic soda & hydrogen gas .
- (iii) calcium hydroxide react with carbon dioxide to form calcium carbonate & water .
- (iv) aluminium react with copper chloride to form aluminium chloride & copper .

Question 8.

State the observation for following statements When potassium iodide solution is added to lead
nitrate



Question 9.

Read activity 1.3 & write the observation with appropriate reaction.



Question 10.

A silvery white metal X taken in the form of ribbon when ignited, burns in air with a dazzling white flame to form a white powder Y. When water is added to powder Y, it dissolves partially to form another substance Z.

- (A) what could metal X be?
- (B) What is powder Y?

- (C) with which substance metal X combine to form powder Y?
- (D) what is substance Z ? Name one domestic use of substance Z .
- (E) write a balanced chemical equation of the reaction which take place when metal X burns in air to form powder Y .

