

DON BOSCO SCHOOL KOKAR RANCHI

2020-2021

Class 9

CHEMISTRY

BOOK: ICSE CHEMISTRY
(A MISHRA, A S SAHAY)
(BHARTI BHAWAN)

Revision exercise 1
(page number 44)
(For chapters 1, 2, 3)

SOLUTIONS:

- 1.a. atomicity of He 1
- b. Atomicity of Cl 1
- c. Atomicity of O 3
- d. Atomicity of P. 1
- e. Atomicity of S 1
- f. Atomicity of Ar. 1

2.molecular formulae

- a. Calcium carbonate. CaCO_3

3.solution

- a.CuO- copper (II) oxide
- b.CuCl copper (I) chloride
- c. FeSO_4 iron (II) sulphate
- d. $\text{Fe}_2(\text{SO}_4)_3$ iron (III)sulphate
- e . FePO_4 iron (III) phosphate
- f. SnCl_2 tin(II) chloride
- g. SnCl_4 tin (IV) chloride
- h. FeO iron (II)oxide
- i. FeCl_3 iron (III) chloride
- j. Fe_2O_3 iron oxide (III) oxide

4. Mass of NaOH

$$23+16+1=40$$

6.solutions:

- a. $\text{CaCO}_3+2\text{HCl}\rightarrow\text{CaCl}_2+\text{H}_2\text{O}+\text{CO}_2\text{ g}$
- b. $2\text{H}_2+\text{O}_2\rightarrow 2\text{H}_2\text{O aq}$
- c. $\text{CaCO}_3\rightarrow\text{CaO}+\text{CO}_2\text{ g}$
- d. $\text{BaCl}_2 +\text{H}_2\text{SO}_4\rightarrow\text{BaSO}_4 + \text{dil } 2\text{HCl}$

7. solution:

A B

a.....(iii) synthetic reaction

b.....(i) decomposition
 reaction

c.....(iv) double decomposition reaction

d.....(ii) displacement
 reaction

8.a. what is that substance called

(i).ans. hygroscopic

(ii).ans. deliquescent

(III)and. Dehydrating agent

b.(i)ans. Saturated solution

(ii)ans. Unsaturated solution

(iii)and. Supersaturated solution

9.ans. sand

10.(i)a. The burning of sulphur

(ii)c. Carbon dioxide

(iii)d. $\text{KOH} + \text{HCl} \rightarrow \text{KCl} + \text{H}_2\text{O}$

(iv)c. NO

(v)d. Iron

11. Fill in the blanks

Solutions:

a. The reaction represented by the equation..... Is a double decomposition reaction.

b. A metal higher in the activity series displaces one that is lower.

c. H_2 who is reducing agent

d. There is an increase in mass when magnesium is burnt in air.

e. Hydrocarbons burn in an excess of air to give water and carbon dioxide.

f. Below as well as above 4 degree Celsius the density of water decreases.

12. True and false

Solutions:

a. A solution is a heterogeneous mixture.... FALSE

b. Water expels dissolved air on cooling.... FALSE

c. Photosynthesis replenishes the oxygen of air used in burning and respiration..... TRUE

d. Carbon dioxide is discharged in the air during respiration..... TRUE

e. A hydrated salt may lose water even without being heated.... FALSE

f. Pure water is a good conductor of electricity.. FALSE

g. Fe displaces Cu from a solution of CuSO_4TRUE