

REVISION PRACTICE ASSIGNMENT (RPA)

SUBJECT- CHEMISTRY

SESSION-2020-21

CLASS-X

TOPIC: CHEMICAL REACTIONS AND EQUATIONS

I. Fill in the blanks:

- 1) Reduction is a process which involves _____ of electrons.
- 2) The substances which take part in a chemical reaction are called _____.
- 3) A balanced chemical equation has equal masses of various elements in _____ and _____.
- 4) Matter can neither be _____ nor _____ in a chemical reaction.
- 5) A precipitate is a _____ product which separates the solution during a chemical reaction.

II. Very short answer type question: -

- 1) Define decomposition reaction
- 2) Define displacement reaction
- 3) Define redox reaction
- 4) Define double displacement reaction
- 5) Define combination reaction

III. Short answer type questions:

- 1) You might have noted that when copper powder is heated in a china dish, the surface of copper powder becomes coated with a black colour substance.
 - (a) How has this black coloured substance formed?
 - (b) What is that black substance?
 - (c) Write the chemical equation of the reaction that takes place.
- 2) Write the balanced equation for the following reactions for the following reactions.
 - (a) Hydrogen combines with nitrogen to form ammonia.
 - (b) Magnesium burns in oxygen to form magnesium oxide.

3) What happens when

- (a) A piece of magnesium metal is placed in copper sulphate solution?
- (b) A piece of copper metal is placed in iron sulphate solution?

IV. Long answer type questions:

- 1) A metal nitrate 'A' on heating gives yellowish brown coloured metal oxide along with brown gas 'B' and a colourless gas 'C'. Aqueous solution 'A' on reaction with potassium iodide forms a yellow precipitate of compound 'D'. identify 'A, B, C, D'. Also identify the type of both the reactions. Metal present in 'A' used in alloy which is used for soldering purposes.