

## CLASS X CHEMISTRY ASSIGNMENT

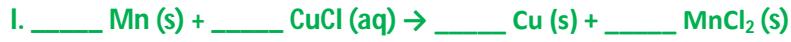
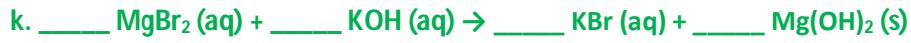
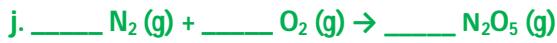
### CHEMICAL REACTIONS AND EQUATIONS

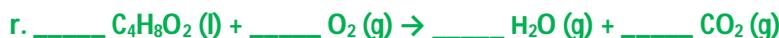
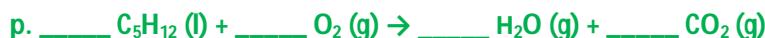
Q1 Define:

- Reactants
- Products
- Balanced chemical equation.

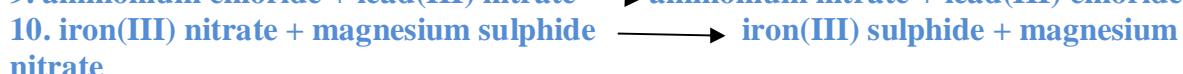
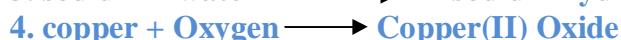
Q2 Balance the following chemical equation and identify the reactants and products.

---





Q2 Write the skeleton equation for each of the following reactions. Then balance each of the following chemical equations.



Q3 Indicate which type of chemical reaction (Combination, decomposition, single-displacement, double-displacement or combustion) is being represented in the following reactions:

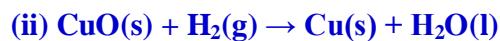


Q4 Differentiate between:

➤ Combination and Decomposition reaction.

- Displacement and Double displacement reaction.
- Oxidation and Reduction reaction.
- Balanced and unbalanced chemical equation.
- Corrosion of iron and Copper.

Q5 Identify the substances that are oxidized and the substances that are reduced in the following reactions.



**Study the above reaction and name the following:**

- Substance getting reduced
- Substance getting oxidized
- Oxidizing agent
- Reducing agent.

Q7. Give reasons for the following:

- Silver Nitrate solution cannot be stored in Copper containers.
- Gold and Silver do not corrode in air
- Blue colour of copper sulphate solution starts fading when a zinc rod is dipped in it.
- Respiration is an endothermic reaction.
- Photo chemical decomposition reaction finds application in photography.

Q8. why does stale food gives a bad smell and bad taste? How can this be prevented?

Q9 For each of the following experiments, decide whether a reaction will occur. If you think there will be no reaction, write down why you think this.

**If you think a reaction will happen:**

**write down why you think it will happen, what you expect to see, and the word equation to go with it.**

- a) iron heated with copper(II) oxide
- b) aluminium heated with iron oxide
- c) copper heated with iron oxide
- d) magnesium heated with zinc oxide

Q10. Give examples for the following:

- Precipitation reaction.
- Thermal decomposition.

- Natural oxidation.
- Exothermic reaction.