

**DELHI PUBLIC SCHOOL, JAMMU**  
**PREBOARD-1 ASSIGNMENT**  
**SESSION (2017-18)**

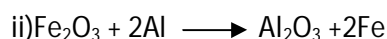
Subject-Chemistry

Class:- 10th

**Topics:-Chemical equations and Reaction; Acids,Bases and Salts ;Metals and Non-metals; Periodic Classification of elements.**

Q1. Why does the colour of copper sulphate solution change when an iron nail is dipped in it?

Q2. Identify the substances that are oxidized and the substances that are reduced in the following reactions.



Q3. What is the difference between Displacement and Double displacement reactions? Write equations for these reactions.

Q4. Why does dry HCl gas not change the colour of the dry litmus paper?

Q5. While diluting an acid, why is it recommended that the acid should be added to water and not water to the acid?

Q6. Name the sodium compound which is used for softening hard water.

Q7. What will happen if a solution of sodium hydrogen carbonate is heated? Give the equation of the reaction involved.

Q8. What would you observe when Zinc is added to a solution of iron(II)sulphate? Write the chemical reaction that takes place.

Q9. What chemical process is used for obtaining a metal from its oxide?

Q10. State three ways to prevent the Rusting of Iron.

Q11. What are amphoteric oxides? Give two examples of amphoteric oxides.

Q12. What were the criteria used by Mendeleev in creating his Periodic Table?

Q13. Name two elements you would expect to show chemical reactions similar to Magnesium. What is the basis for your choice?

Q14. In the Modern Periodic Table, which are the metals among the first ten elements?

Q15. Compare and contrast the arrangement of elements in Mendeleev's Periodic Table and the Modern Periodic Table.