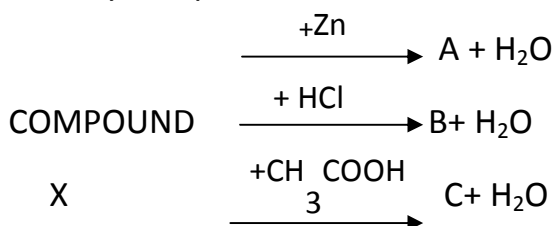


## Class -X - Chemistry

1. What are the different theories to classify acids and bases?
2. Calculate the pH of 1M HCl solution.
3. Calculate the pH of a solution containing 1M NaOH.
4. Consider a salt  $\text{NH}_4\text{Cl}$ . Will the pH of salt solution be higher, lower or equal to 7?
5. What is the formula of Dolomite?
6. What is Aqua Regia?
7. Arrange the following in the decreasing order of pH  
Blood, HCl, lemon juice, NaOH
8. Acidity of  $\text{BF}_3$  ion be explained according to whose concept?
9. What is softening of hard water?
10. If litmus paper is exposed to dry ammonia gas what will be the colour change of litmus paper?
11. What type of salt is Mohr's salt?
12. What happens to a solution when the concentration of ions is decreased by 100 times its original?
13. When few drops of phenolphthalein indicators are added to an acidic solution. What will be the change in colour of the solution?
14. Identify compound X also write the name and the formulae of A, B and C



15. Explain why:
  - An aqueous solution of washing soda is alkaline in nature?
  - Common salt becomes sticky during rainy season?
  - A tarnished copper vessel begins to shine again when rubbed with lemon?