

Kurdistan Regional Government Iraq
Ministry of Higher Education & Scientific Research
Salahaddin University –Erbil
College of Basic Education
Department: General science



Stage : 2nd

Time:60 minutes

Practical Inorganic Chemistry

2021-2022

Q1/ Fill these blanks: (15 Marks)

- 1- Crude table salt contain impurities that make the salt ----- and sometimes-----, and these impurities include-----, -----ion and-----
- 2- Solubility of a solute in a solvent is the -----of ----- necessary to saturate-----of -----at a-----.
- 3-If $K_{sp} >$ ionic product the solution is -----,but if $K_{sp} <$ ionic product the solution is -----.
- 4-If $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$ reacted with Na_2SO_3 to produce CuCl , $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$ is ----- Agent and Na_2SO_3 is ----- agent.
- 5-Zinc is a transition metal ,it is able to ----- electrons.

Q2/ Complete & balance these equations:(10 Marks)

- 1- $\text{Na}_2\text{CO}_3 + \text{HCl} \rightarrow$
- 2- $\text{CO}_3^{2-} + \text{Ca}^{2+} \rightarrow$
- 3- $\text{CuSO}_4 + \text{KI} + \text{Na}_2\text{S}_2\text{O}_3 \rightarrow$
- 4- $\text{CuSO}_4 + \text{Zn} \rightarrow$
- 5- $\text{K}_2\text{Cr}_2\text{O}_7 + \text{H}_2\text{SO}_4 + \text{CH}_3\text{CH}_2\text{OH} \rightarrow$

Q3/ How to detect that 1mL of unknown solution contains Ag^+ & Pb^{2+} ?
(10 Marks)

Best Wishes

Lecturer: Gulkhater H.Sharif

Signature :

Date: 18/4/2022