

UG part I (HONS) + (SUBSIDIARY)

ASSIGNMENT

1. What are chlorides?
2. When does chloride ion form?
3. Write the name and formula for some chloride salts.
4. Write two important uses of chloride salt.
5. What are the preliminary test for chloride ions?
6. Write the materials required, theory and procedure of dry heating test for chloride ion.
7. Write the materials required and procedure of potassium permanganate test.
8. Write the materials required and procedure of concentrated sulphuric acid test.
9. What are the confirmatory test for chloride ion?
10. Write the materials required ~~for~~ and procedure required for
 - a) Silver Nitrate test
 - b) Manganese dioxide test
 - c) chromyl chloride test
11. Complete the following reactions.
 - 1) $\text{NH}_3 + \text{HCl} \rightarrow \underline{\hspace{2cm}} \uparrow$
ammonia hydrochloric acid
 - 2) $2\text{KMnO}_4 + 13\text{H}_2\text{SO}_4 + 10\text{NaCl}$

 \downarrow
 $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

- c) $\text{NaCl} + \text{H}_2\text{SO}_4 \rightarrow \underline{\quad} + \underline{\quad} \uparrow$
- d) $\text{NaCl} + \text{AgNO}_3 \rightarrow \underline{\quad} \downarrow + \underline{\quad}$
- e) $2\text{NaCl} + \text{MnO}_2 + 3\text{H}_2\text{SO}_4 \rightarrow \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} \uparrow$
- f) $4\text{NaCl} + \text{K}_2\text{Cr}_2\text{O}_7 + 3\text{H}_2\text{SO}_4 \rightarrow \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} \uparrow$
 $\underline{\quad} + \underline{\quad} + \underline{\quad} \uparrow + \underline{\quad}.$
- g) $\text{CrO}_2\text{Cl}_2 + 4\text{NaOH} \rightarrow \underline{\quad} + \underline{\quad} + \underline{\quad}$
- h) $\text{Na}_2\text{CrO}_4 + (\text{CH}_3\text{COO})_2\text{Pb} \rightarrow \underline{\quad} + \underline{\quad}$