

UG PART I

Practical Assignment

Try these questions

Test for Ammonium ion

- 1) Write the formula of ammonium ion.
- 2) How ammonium ion is formed?
- 3) What is the structure of ammonium?
- 4) Ammonium ion is monoatomic or polyatomic?
- 5) Write the name and formula of some salts which contain ammonium ions.
- 6) What is the preliminary tests for ammonium ion.
- 7) Write the materials required, procedure and observation for following preliminary test for ammonium ion
 - a) Smell test
 - b) Dry Heating test
 - c) Analysis of ammonium ion
 - d) Confirmatory test for ammonium ion

- 8) Complete the following reactions

- a) $\text{NH}_3 + \text{H}^+ \rightarrow \text{_____}$
(Ammonia) (proton)
- b) $\text{NH}_4\text{Cl} \rightarrow \text{_____} + \text{_____}$
(ammonium chloride)
- c) $\text{NH}_3 + \text{HCl} \rightarrow \text{_____}$
(Ammonia) (hydrochloric acid)
- d) $\text{NH}_4\text{Cl} + \text{NaOH} \xrightarrow{\Delta} \text{_____} + \text{_____} + \text{_____} \uparrow$
(ammonium chloride) (sodium hydroxide)
- e) $2\text{K}_2[\text{HgI}_4] + \text{NH}_3 + 3\text{KOH} \rightarrow \text{_____} + \text{_____} + \text{_____}$
Nessler's reagent. Brown precipitate

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- q) write the formula of Nessler's reagent. Where it is used.
- 10) write the precautions taken during experiment.