Practical No.1

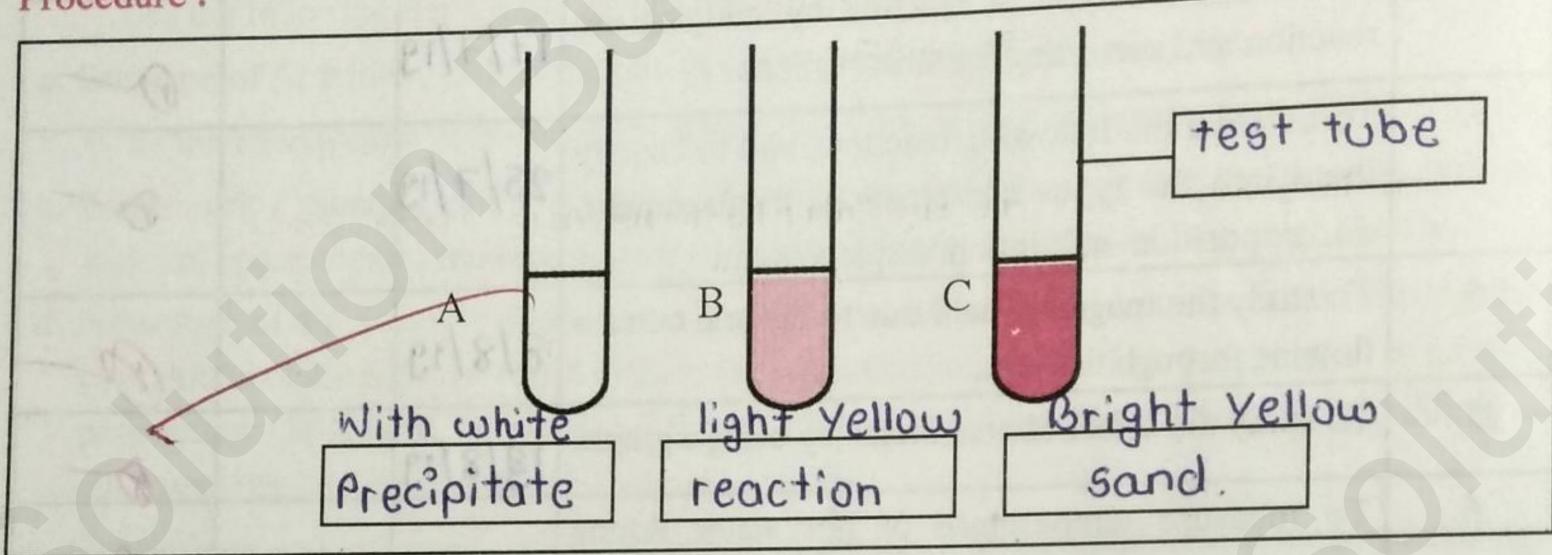
Aim: To identify the chloride, bromide and iodide ions from the given salts.

Chemicals: Silver nitrate, solutions of potassium chloride, potassium bromide and potassium

iodide.

Figure: (Label the following diagram.)

Procedure:



- 1. Take three test tubes and label them as A, B and C.
- 2. Take about 5ml of solutions of potassium chloride in C, potassium bromide in B and potassium iodide in C.
- 3. Add about 5ml silver nitrate solution and stir it.
- 4. Keep test tubes on the stand and observe.

Observations:

Test Tube	Chemical Reaction	Colour of precipitate	ion
A	KCl + AgNO ₃	White	chloride (Cl ⁻)
В	K2Cr03+B0504->B0Cr04+K2504	light yellow	Bramide
K	KBr + AgNO3 -> KNO3 + AgBr V		
C	2HC1 + Mg -> MgC12 + H2	bright yellow	Hydrogen
	KI + AgNO2 -> KNO2 + AgI V		0 0

Interence / Conclusion:

- 1. Ions are precipitated in all the three reaction in the experiment.
- 2. Elements in the halogen family belonging to 17th group in the periodic table show similarity in their properties.

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.happen	ed.			1111be	

Multiple Choice Questions	
1. Valency of the elements in the halogen group isO.ne	
b. two c. three d. four	
2. The most reactive element in the halogen group isF.lborine	
a. Astetine b. Iodine c. Chlorine d. Fluorine	
3. The halogen which is liquid at room temperature is Bramine	
a. Fluorine b. Astetine c. Bromine d. Iodine	
4. The metallic character of elements .Increases in a group from top to	
a increases b. decreases c. remains constant d. shows indefinite l	behaviour.
5. Valency of elements in a period from left to right.	
a. Increases b. decreases	
c. remains constant d. increases in the beginning and then decreases.	
: Exercise :	
1. Observe the Modern Periodic Table and explain the gradation in reactivity of In the modern periodic table the vertical calcological as groups.	mns.are
In that groups-17 is a hologen family. These hologen are non-metallic in there character. The of hologen families atom is one because the element in that group are 7. So they need an	elementsot ne valuency outermost
ta. camplete. their octet. example - Cla., Ila	
Halogen is the 17 group in Modern periodic take all elements in Halogen family have same vo That is outermost elen shell have 7 electrons Hologen group	lency
i.ta.a	
3. Why does Inert gases placed in Zero group?	
When mendeleev put periodic table that time	no.nie
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shells is complete, means octat is complet	.e9.Q.,
When mendeleev put periodic table that time gas are not discovered. But, At the time of enth century they were discovered. The property of inert gases is that, their shells is complete, means octat is complete this group is known as "Zero group"	
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