

Non-metal.

- ① How would you prepare HBr and HI gas in the lab? Give reactions involved.
- ② How does chlorine bleaches colourful matter to colourless product? Give reactions.
- 3) Give a reaction to show HI is the most powerful reducing agent than HBr & HCl ?
- 4) What happens when chlorine is treated with cold & dilute Calcium hydroxide?
- 5) Why is Nitrogen molecule inert compared to other diatomic molecule?
- 6) What happens when ammonia gas is passed through :-
 - a) ferric chloride solution?
 - b) Copper Sulphate solution till saturation.
 - c) Mercurous nitrate solution.
- 7) Which metals liberate Hydrogen gas from very dilute nitric acid? Write their name and give one reaction.
- 8) What happens when :-
 - a) zinc is treated with dilute HNO_3
 - b) zinc is treated with moderate concentration of HNO_3 .
 - c) Iron is treated with very dil. HNO_3
 - d) Copper is treated with conc. HNO_3 .
- 9) Iron becomes passive with hot & conc. HNO_3 . Why?

10) What happens when Conc. HNO_3 is treated with
i) Sulphur.
ii) H_2S gas.
iii) Carbon.

11) How would you test Nitrate ion in the lab? Give reaction too.

12) Give a reaction to show oxidizing nature of Chlorine gas?

13) What happens when I_2 is treated with NaOH solution?

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- ① What happens when H_2S gas is passed through SO_2 -water?
- ② Give 111 example to show the following nature of H_2SO_4 :-

- a) dehydrating nature-
- b) precipitating nature
- c) oxidizing nature-

- ③ What happens when SO_2 gas is passed through

- a) acidified $KMnO_4$
- b) acidified $K_2Cr_2O_7$
- c)

- ④ What happens when H_2S gas is passed through Copper sulphate in acidic medium

- ⑤ What happens when H_2S gas is passed through
- a) $NiCl_2$
 - b) $MnCl_2$
 - c) $ZnSO_4$
- in basic medium