Practice Question Set For A-Level
**Subject : Chemistry**
**Paper-1 Topic: Inorganic 1**

Merit Minds
www.merit-minds.com
Exam Preparation and Free Resources

**Name of the Student**:_____
**Max. Marks : 18 Marks** **Time : 18 Minutes**

Q1.

(a) In Peru, chlorine was removed from the water supply due to concerns about it reacting with organic chemicals in the water to produce toxic substances. This resulted in the death of ten thousand people due to cholera. The cholera epidemic ceased when chlorination of the water supply was restarted.

State why chlorine is added to the water supply and give a reason why the amount of chlorine must be carefully monitored. Write an equation for the reaction of chlorine with water.

_____

_____

_____

_____

_____

_____

**(3)**

(b) How can the addition of an aqueous solution of chlorine be used to distinguish between aqueous solutions of sodium bromide and sodium iodide?

State any observations you would make and write equations for the reactions occurring.

_____

_____

_____

_____

_____

_____

_____

_____

**(4)**

(c) How can reactions with concentrated sulphuric acid be used to distinguish between solid samples of sodium bromide and sodium iodide?

Downloaded from www.merit-minds.com

State the observations you would make and give all the oxidation and reduction products formed in both reactions. Using half-equations, construct an overall equation for **one** of these redox reactions.

**(11)**

**(Total 18 marks)**

Downloaded from www.merit-minds.com