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

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Name of the Student:_____
Max. Marks : 14 Marks **Time : 14 Minutes**

Q1.

(a) State and explain the trend in electronegativity down Group VII from fluorine to iodine.

Trend _____

Explanation _____

_____

_____

(3)

(b) State what you would observe when chlorine gas is bubbled into an aqueous solution of potassium iodide. Write an equation for the reaction that occurs.

Observation _____

Equation _____

(2)

(c) Identify **two** sulphur-containing reduction products formed when concentrated sulphuric acid oxidises iodide ions. For each reduction product, write a half-equation to illustrate its formation from sulphuric acid.

Reduction product 1 _____

Half-equation _____

Reduction product 2 _____

Half-equation _____

(4)

(d) Write an equation for the reaction between chlorine gas and dilute aqueous sodium hydroxide. Name the **two** chlorine-containing products of this reaction and give the oxidation state of chlorine in each of these products.

Equation _____

Name of product 1 _____

Oxidation state of chlorine in product 1 _____

Name of product 2 _____

Oxidation state of chlorine in product 2 _____

(5)

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(Total 14 marks)

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