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

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Name of the Student:_____
Max. Marks : 15 Marks **Time : 15 Minutes**

Q1.

This question is about sodium halides.

(a) State what is observed when silver nitrate solution is added to sodium fluoride solution.

_____

(1)

(b) State **one** observation when solid sodium chloride reacts with concentrated sulfuric acid.

Give an equation for the reaction.

State the role of the chloride ions in the reaction.

Observation _____

Equation

_____

Role _____

(3)

(c) Give an equation for the redox reaction between solid sodium bromide and concentrated sulfuric acid.

Explain, using oxidation states, why this is a redox reaction.

Equation

_____

Explanation _____

_____

_____

_____

(3)

(d) State what is observed when aqueous chlorine is added to sodium bromide solution.

Give an ionic equation for the reaction.

Observation _____

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Ionic equation

_____

(2)

(Total 9 marks)

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Q2.

The following pairs of compounds, each in aqueous solution, can be distinguished by simple test-tube reactions.

Give a reagent, or combination of reagents, that can be added to the solutions in each pair to distinguish between them in a single reaction.

State what is observed in each case.

(a) NaCl(aq) and $BaCl_2$(aq)

Reagent _____

Observation with NaCl _____

Observation with $BaCl_2$ _____

(3)

(b) NaCl(aq) and Na_2CO_3(aq)

Reagent _____

Observation with NaCl _____

Observation with Na_2CO_3 _____

(3)

(Total 6 marks)

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