

SEMESTER 2 EXAMINATION

CHEMISTRY

(SCIENCE PAPER 2)

Maximum Marks: 40

Time Allotted: One and a Half Hours

Answers to this paper must be written on the paper provided separately

You will not be allowed to write during the first 10 minutes

This time is to be spent in reading the question paper

The time given at the head of this Paper is the time allowed for writing the answers.

Attempt all questions from Section A

You must attempt one question from each of the Sections B, C and D.

The intended marks for questions or parts of questions are given in brackets

SECTION A

(Attempt All Questions)

Question 1

Choose the correct answers to the questions from the given options. (Do not copy question. Write the correct answer only.)

(i) The ore of Aluminium is:

- a) Calamine
- b) Heamatite
- c) Magnetite
- d) Cryolite

(ii) Hydrogen chloride gas is not collected over water, as:

- a) It is highly soluble in water.
- b) It is less soluble in water
- c) It is lighter than air.
- d) It is heavier than air.

(iii) An aqueous solution of ammonia is:

- a) Neutral
- b) Acidic
- c) Basic
- d) Amphoteric

(iv) The acid which is least volatile is:

- a) Hydrochloric acid
- b) Nitric acid
- c) Dilute sulphuric acid
- d) Concentrated sulphuric acid

(v) The gas formed when calcium bisulphite reacts with dilute HNO_3

- a) Sulphur trioxide
- b) Hydrogen
- c) Sulphur dioxide
- d) Hydrogen sulphide

(vi) The IUPAC name of formic acid:

- a) Propanoic acid
- b) Methanoic acid
- c) Ethanoic acid
- d) Butanoic acid

(vii) The metallic oxide which when reacts with HCl forms salt and water:

- a) Carbon monoxide
- b) Nitrous oxide
- c) Ammonium hydroxide
- d) Sodium oxide

(viii) Vanadium pentoxide is used as a catalyst in the preparation of :

- a) Nitrogen gas
- b) Nitrogen dioxide gas
- c) Sulphur trioxide gas
- d) Carbon dioxide gas

(ix) The Catalyst used for the conversion of Ethene to Ethane:

- a) Iron
- b) Nickel
- c) Cobalt
- d) Molybdenum

(x) Substance which helps to lower the fusion point of the mixture in Hall Heroult Process:

- a) Coke
- b) Concentrated sodium hydroxide
- c) Fluorspar
- d) Concentrated potassium hydroxide