

Candidate's Name: _____

Signature: _____

Random No.

Personal No.

(Do not write your School / Centre Name or Number anywhere on this Booklet)

545/1
CHEMISTRY
Paper 1
March/April. 2025
 2 hours

JOSELO CBC-CHEMISTRY SERIES II
UGANDA CERTIFICATE OF EDUCATION
CHEMISTRY

Paper 1

Time: 2 hours

INSTRUCTIONS TO CANDIDATES:

The paper consists of **two** Sections; **A** and **B**.

It has **six** examination items. Section **A** has **two compulsory** items

Section **B** has two Parts; **I** and **II**: Answer one item from each part.

Answer **four** items in all.

Answer to Section **A must** be written in the spaces provided while those of Section **B must** be written on the answer booklet(s) provided.

Any additional item(s) answered will **not** be scored.

Use where necessary;

Ca = 40; C = 12; O = 16; 1 mole of a gas occupies 22.4 dm³ at s.t.p.

Items	Scoring Guide For the Scorer's Use Only				Score	Total
Item 1	(a) Ci=	(b) F =	(c) D3=	d) E2 =		18 scores
Item 2	(a) C2 =	(b) P =	(c) U =	(d) I ₂ =		12 scores
Item 3/4	(a) P3 =	(b) D3 =	(c) B3 =			18 scores
Item 5/6		(b) D3 =	(c) B2 =			15 scores
TOTAL						63Scores

Turn Over

SECTION A

Answer **both** items in this section in the spaces provided.

Item 1:

Two women, **Sarah** and **Tina** washed their clothes at a well using the same source of well water. However, Sarah uses detergent **A** while Tina uses detergent **B**. After washing, Sarah notices that her clothes feel soft, cleaner and free of residues, while Tina's clothes have a slightly sticky texture and show some white marks even after rinsing.



Fig 1 showing Sarah and Tina washing their Clothes at the well

Task:

As a chemistry student

(a) Explain the mistake Tina made while choosing the product.

b) Guide the two women to understand how the product works.

c) Advice Sarah and Tina on the challenges associated with the long term use of the product.

d) Help them to evaluate the Product

Item 2:

Mr Kamuntu, is in the process of entering in his newly constructed house, but the house lacks metal doors, window frames and electrical wires. He wants to buy these materials from the market. He has lit knowledge about their structural suitability in the house. He wants to be guided well to make the right choice, and has come to you for advice



Task:

As a chemistry student,

- (a) Help Mr Kamuntu to know the category of the materials:

- b) Guide him on the suitability of the materials.

c) Advise him on the choice of the material chosen for use.

d) Advise him on the impact of the materials to the environment.

SECTION B

Part I

Answer any one item from this part in the answer sheets provided.

Item 3:

Ugandan government started manufacturing electric vehicles on a large scale using copper metal materials imported from China. However, the costs and demand of copper globally has recently gone higher. The government of Uganda through the ministry of energy and power has contracted a chinese investor with the aim to revive the copper production in Kilembe mine, in Kasese District of western Uganda. However, some local residents are worried whether the environment would not be affected.



They also have no idea on how the production process of copper will be conducted. a sensitization workshop where the management of the plant and some local representatives have been invited.

Task

As chemistry learner, write a brief presentation that you will deliver on this day's invitation.

Item 4:

Kibambuli village has been hit hard by red eye outbreak. The village is best known for growing cassava and millets, which are used to make local drinks called “Maruwa”. But because the outbreak has worsened in the area, the ministry of Health has locked down the village. An investor from the nearby town wants to set – up a production process for plant to produce ethanol on large scale. This attracted the attention of the people in this area and they are wondering how this project will work, while benefiting the community without affecting the environment.



You have been invited by the local leaders to sensitize the villagers.

Task:

Prepare a presentation you will use during the meeting.

Part II

Answer any **one** item from this part in the answer sheets provided.

Item 5:

Ojara, a famous cattle keeper in Loro village in Lango sub-region, grazes his cows on community land before people clear it for farming. During the dry season, he practices bush burning to hunt small wild animals. He also takes his cows to drink water from the nearby community water source. However, his practices have raised concern from the community. The area chairperson has organized a meeting to create awareness for him and others who perform such practices.

Task:

As a learner of Chemistry, prepare a write – up message that will be delivered during the meeting. **(15 scores)**

Item 6:

In her school holidays, Suzan visited her aunt who works in one of the stone quarries in the area. Suzan noted that explosives were being used to blast the big lumps of rocks to form small stones (aggregates) and there was a lot of dust rising into the atmosphere as shown below.



Besides the social benefits, Suzan was much concerned about what would happen to the site and community at large, if the activity continued over time.

Task:

As a learner of Chemistry learner,

Prepare a write – up to respond to Suzan’s concern

(15 scores)

END