P525 / 3/ Inst. Sc.
CHEMISTRY
PRACTICAL
INSTRUCTIONS
July / Aug. 2023

UGANDA TEACHERS' EDUCATION CONSULT (UTEC)

Uganda Advanced Certificate of Education

PRACTICAL CHEMISTRY INSTRUCTIONS

(Paper P525/3)

CONFIDENTIAL:

Great care should be taken that the information given below does not reach the candidates either directly or indirectly.

INSTRUCTIONS FOR PREPARING APPARATUS

NB: The Head teacher must ensure that the teacher responsible for preparing the apparatus hands in his /her trial results properly sealed in a separate envelope and **firmly** fastened (attached) to the candidates' envelope(s)

1. The description of the reagents and chemicals specified below does not necessarily correspond with the description in the question paper. Candidates must not be informed of the difference.
2. Candidates are not allowed to use reference books during the examination.
3. In addition to the fittings, apparatus and substances ordinarily contained in chemistry laboratory, each candidate will require:

1 pipette (**20.0 or25.0 cm^3**)

1 burette (**50cm^3**)

Measuring cylinder (100 cm^3)

2 conical flasks

1 Empty beaker

6 test tubes

1 boiling tube

3 filter paper

150cm^3 of **FA1**

100 cm^3 of FA2

1.50 g of solid J

Phenolphthalein indicator and methyl orange indicator

Easy access to weighing scale, source of heat and common laboratory reagents for identifying cations and anions

FA1 is 0.2 M hydrochloric acid solution

FA2 is made by dissolving 8.5g of anhydrous sodium carbonate + 4.0 g of sodium hydroxide in one liter **(OR 22.9g of hydrated sodium carbonate + 4g of sodium hydroxide in a liter)**

J is anhydrous sodium carbonate

H is a mixture of ZnO + PbO+ NaCl + Na_2SO_4in a **ratio of 2:2:1: 0.5**

D is Ethanal (Acetaldehyde)