## FORM 3 CHEM PP3

## END OF TERM 1 EXAM 2023

## CONFIDENTIAL

## Question one

In addition, to the common laboratory apparatus and fittings, each candidate should be provided with:

- About $80 \mathrm{~cm}^{3}$ of solution R
- About $100 \mathrm{~cm}^{3}$ of solution Q
-1.06 g of solid A accurately weighed
-25 ml pipette
-50 ml burette
- 250 ml volumetric flask
- 100ml plastic beaker
- Three conical flasks
- Labels
- 50 ml measuring cylinder
- Metallic spatula
- source of heat
- boiling tube
- six dry test tubes

Access to methyl orange
Solid A is anhydrous sodium carbonate

## Question two

Solid J ( 2 g ) (each student) - prepared by mixing zinc sulphate and ammonium sulphate in the ratio $1: 1$

- 2 M sodium hydroxide solution
- 2 M ammonium hydroxide solution
- 2M lead (ii) nitrate solution
- 2 M nitric (IV) acid

