

CHEMISTRY PAPER 3
CONFIDENTIAL
END TERM 2 2025
JULY 2025

INSTRUCTIONS

Each candidate should be provided with:

- About 1g of malleic acid – solid P
- A clean metallic spatula
- Bunsen burner
- 500ml distilled water in a wash bottle
- Six test-tubes in a rack
- One test tube holder
- 2 boiling tubes
- About 1g of AlCl_3 – solid M
- One blue and one red litmus paper
- One volumetric flask (250ml)
- One pipette 25cm^3
- One pipette filter
- One label
- Solid G – oxalic acid (exactly 3g) in a stoppered container
- 50ml or 100ml measuring cylinder
- 100cm^3 beaker
- One thermometer
- One stopwatch/clock
- About 0.2g NaHCO_3 solid
- 100ml of solution H
- One burette (50ml)
- 2 conical flasks

Access to:-

- 0.2M $\text{Pb}(\text{NO}_3)_2$ Solution supplied with a dropper
- 0.2M $\text{Ba}(\text{NO}_3)_2$ Solution supplied with a dropper
- 0.1M KI Solution supplied with a dropper
- 2M NaOH Solution supplied with a dropper
- 2M $\text{NH}_3(\text{aq})$ Solution supplied with a dropper
- Acidified $\text{K}_2\text{Cr}_2\text{O}_7$ Solution supplied with a dropper

Preparation instruction

- Dissolve 6.4g of KMnO_4 in 400cm^3 2M H_2SO_4 and top to 1litre using distilled water. Label this as solution H.