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CHEMISTRY PAPER 3
CONFIDENTIAL
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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 $Pb(NO_3)$ Solution supplied with a dropper
- 0.2M $Ba(NO_3)_2$ Solution supplied with a dropper
- 0.1M KI Solution supplied with a dropper
- 2M NaOH Solution supplied with a dropper
- 2M $NH_{3(aq)}$ Solution supplied with a dropper
- Acidified $K_2CR_2O_7$ 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.

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