

233/3 CHEMISTRY PRACTICAL CONFIDENTIAL INSTRUCTIONS TO SCHOOLS

The following equipments and apparatus should be provided all candidates.

(a) In addition to the fittings and apparatus found in a chemistry laboratory, each candidate will require the following:

- About 120cm³ of solution **A**
- About 100cm³ of solution **B**
- One pipette, 25ml
- One burette, 0-50ml
- At least 2 conical flasks, 250ml
- A 100ml measuring cylinder
- A 10ml measuring cylinder
- Thermometer
- 250ml plastic beaker
- 100ml glass beaker
- About 120cm³ of solution **D**
- About 90cm³ of solution **E**
- 0.04g of solid **C**
- Stop watch
- About 2g of solid **G**
- About 2g of solid **H**
- Metallic spatula
- About 0.5g of sodium hydrogen carbonate solid
- Six dry test tubes
- One boiling tube
- One white plain paper
- (b) Access to:
 - Source of heat
 - Distilled water
 - Universal indicator solution and pH chart range 1-14
 - Acidified KMnO₄ solution
 - Pb (NO₃)₂ solution
 - 2M sodium hydroxide
 - 2M ammonia solution
 - Phenolphthalein indicator

(c) Additional information

- Solution A-0.6M HCl acid
- Solution **B**-0.5M NaOH(aq)
- Solution **D** Made by dissolving 40g of sodium thiosulphate per litre of solution.
- Solution E- 2M HCl(aq) acid
- Solid C- Magnesium ribbon
- Solid **G** Aluminium sulphate
- Solid **H** Maleic acid

