

**233/3
CHEMISTRY
PAPER 3
PRACTICAL
JULY 2011**

**MAKUENI / KATHONZWENI JOINT EXAMINATION
Kenya Certificate of Secondary Education
CHEMISTRY
PAPER 3**

CONFIDENTIAL

Requirements for candidates

In addition to the fittings and apparatus that are commonly in a Chemistry laboratory each candidate requires:

- 50ml burette
- Pipette (25 ml)
- 3 conical flasks
- Solution A – 150cm³
- Solution B – 150cm³
- Solution C – 100cm³
- White tile
- Stand and clamp
- 4 – 1cm magnesium ribbon
- Solution D, 50cm³
- Distilled water in a wash bottle
- Stop watch
- 100ml glass beaker
- 10ml measuring cylinder
- Solid F – about 3g
- Liquid K – 10cm³
- Metallic spatula
- Source of heat Bunsen burner
- Boiling tube
- Filter funnel

This paper consists 2 printed pages

Turn Over

- Filter paper
- 6 test-tubes
- String rod

ACCESS TO:

2M NaOH
2M NH₄OH
0.25M Pb(NO₃)₂
0.25M BaCl₂
2M HCl
Methyl orange
Access to conc. H₂SO₄
Access to acidified KMnO₄

All supplied with droppers

Preparation of solutions /Solids

F is a mixture of CuCO₃ and ZnSO₄ in the ratio of 4.3 by mass respectively

Solution A is prepared by dissolving 8.6g of conc. Hydrochloric acid (5g 1.18g/cm³) in 600cm³ of distilled water and making to 1 litre of the solution.

Solution B is prepared by dissolving 4g of NaOH pellets in about 500cm³ and making to one litre.

Solution C is prepared by dissolving a mixture of 8.4g NaHCO₃ and 1.6g NaCl in about 500cm³ of distilled water and making to 1 litre.

Solution D is prepared by dissolving 172cm³ of conc. HCl in about 600cm³ of distilled water then making up to 1 litre.

Liquid K is ethanol.

**233/2
HOMESCIENCE
PAPER 2
CLOTHING CONSTRUCTION
JULY 2011**

**MAKA JOINT EXAMINATION
Kenya Certificate of Secondary Education
HOMESCIENCE
PAPER 2
CLOTHING CONSTRUCTION**

CONFIDENTIAL TO SCHOOLS

Provide the following for every student

- (a) Plain light weight cotton fabric 75cm x 91cm wide
- (b) Zip – 5 inches long.
- (c) Sewing thread to match the fabric.

This paper consists of 1 printed page