

# KURIA WEST SUB-COUNTY JOINT EXAMINATION - 2014

233/3

CHEMISTRY

PAPER 3

(PRACTICAL)

## CONFIDENTIAL

Each candidate should be provided with the following:-

- Solution B<sub>1</sub> - about 120cm<sup>3</sup> of oxalic acid solution containing 3.15g of acid dissolved in 250cm<sup>3</sup> of solution.
- Solution B<sub>2</sub> - about 120cm<sup>3</sup> of 0.2M sodium hydroxide solution.
- One burette.
- One filter funnel.
- One 25cm<sup>3</sup> pipette.
- A clamp and stand.
- Phenolphthalein indicator.
- 2 conical flasks.
- White tile.
- Pipette filler.
- Solution Q 10cm<sup>3</sup> (1M sodium sulphite).
- Solution B<sub>1</sub> (10cm<sup>3</sup> of oxalic acid solution).
- Metallic spatula.
- Solution D 150cm<sup>3</sup> of 2M HCl.
- Solution G 150cm<sup>3</sup> of 2M NaOH.
- Thermometer.
- 10ml measuring cylinder.
- 50ml measuring cylinder.
- 100ml plastic beaker or cup.
- Six test tube in a test tube rack.

### Access to:

- Means of heating.
- 2M NaOH solution.
- 2M Ba(NO<sub>3</sub>)<sub>2</sub> solution.
- 2M HCl acid.
- Acidified K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> solution.
- Bromine water.
- Blue and red litmus paper.
- Acidified potassium manganate (VII), KMnO<sub>4</sub>.