**CONFIDENTIAL: CHEMISTRY PAPER 3**

**QUESTION 1**

Each candidate should be provided with-:

1. 100cm3 of solution A containing 21.2g/litre of anhydrous sodium Carbonate,Na2CO3..
2. 150cm3 of solution B which is 0.3m nitric acid solution.
3. 100cm3 of solution C which is 0.2m sodium hydroxide solution.
4. One burette
5. One pipette
6. A clamp and a stand
7. Methyl orange indicator supplied with a dropper.
8. 3 conical flasks
9. A white tile
10. A filter funnel.

NB:

1. Soolution A is prepared by dissolving 21.2g of anhydrous sodium Carbonate,Na2CO3 in 400cm3 of distilled water and top up to one litre.
2. Solution B is prepared by adding 19.2cm3 of conc. nitric(v) acid (HNO3) to 400cm3 of distilled water then top to one litre.
3. Solution C is prepared by dissolving 8g of sodium hydroxide pellets in 400cm3 of distilled water and top up to one litre.

**BENCH SOLUTIONS**

1. 0.2m sodium hydroxide solution
2. 0.2m Ammonia solution
3. 0.2 m Lead(II) NITRATE
4. 0.5M Dilute nitric (v) acid.