**CONFIDENTIAL**

**CHEMISTRY - PAPER 233/3**

**ARISE AND SHINE TRIAL ONE EXAM.**

**MARCH/APRIL 2023**

1. Apart from the laboratory fittings supply the following

 (i). 100cm3 solution A - 0.02M Acidified potassium manganite (VII) (H+/KMnO4)

(ii). 100cm3 Solution B - 0.05M Oxalic acid

(iii). 100cm3 Solution C - containing 4.9g of (NH4)2SO4 FeSO4.6H2O in 250cm3 of

 solution)

(iv). 50ml measuring cylinder

(v). 5 Test tubes

(vi). 1 boiling tube

(vii). 250ml glass beaker

(viii). Thermometer

(ix). Stopwatch

(x). Burette

(xi). Pipette

(xii). Two conical flasks

(xiii). About 1g of solid Q (ZnSO4)

(xiv). Distilled water

(xv). About 0.5g of solid L (oxalic acid)

(xvi). Litmus papers

(xvii). Metallic spatula

(xviii) Means of Heating

(xix) 1g sodium carbonate

Access to

1. 1 M Sodium hydroxide solution
2. 1M Ammonia solution
3. 0.5M Barium Nitrate solution – Acidified
4. 1M sulphuric (VI) acid
5. Acidified potassium Manganate (VII)

NB

0.02M of H+/KMnO4 is prepared by dissolving 3.16g of KMnO4 in 400cm3 of 2M H2SO4. Add distilled water to make 1 litre of solution.