Requirements for candidates.

In additions to the fitting and apparatus that are commonly used in Chemistry laboratory each candidate requires:

1. 50m burette
2. 25ml pipette
3. 2 conical flasks
4. 100cm3 of solution C
5. 100cm3 of solution C2
6. White tile
7. Stand and Clamp
8. 5g of solid K (exactly)
9. 10ml measuring cylinder
10. 250ml glass beaker
11. 2 boiling tubes
12. Thermometer
13. Means of heating
14. Distilled water
15. 3g of solid F
16. 3g of solid P
17. Metallic spatula
18. Filter paper
19. Filter funnel
20. Stirring rod.

Access to:

1. 2M NaOH
2. 2M NH_4OH
3. 0.25M $Pb(NO_3)_2$
4. 0.25M $BaCl_2$
5. 2M HCL
6. Phenophthalean
7. Concentrated H_2SO_4
8. Acidified $KMnO_4$
9. Ethanol

Preparation of solutions/solids

Solid K – Potassium Chlorate (V)

ii) Solution C_1 is prepared by dissolving 10.08g of oxalic acid in about 500cm^3 and making the solution to the mark of 1 litre.

iii) Solution C_2 is prepared b dissolving 8g of NaOH pellets in bout 500cm^3 of distilled water and make it to 1 litre

iv) Solid F is a mixture of $CuCO_3$ and $ZnSO_4$ in the ratio o f 4:3 by mass.

v) Solid P is oxalic acid.