

Each candidate should have:-

1. 80 cm³ solution A prepared by dissolving 4.0g of Sodium hydroxide in water made up to 1 litre
2. 100 cm³ of solution B which is 0.1M HCl
3. Phenolphthalein indicator
4. 2 conical flasks
5. 250ml volumetric flask
6. Burette
7. Pipette
8. White tile
9. Distilled water
10. 4.5 g of Oxalic acid – solid C
11. 1 boiling tube
12. Thermometer
13. Filter funnel
14. Metallic spatula
15. 1g of solid X. (CuSO₄: PbCO₃ in ratios 2:1)
16. 6 clean test tubes
17. Test tube holder
18. 10ml measuring cylinder
19. Solid M. (Malleic acid)
20. Universal indicator and pH chart
21. Sodium Carbonate powder.

Access to:-

- 2M Ba(NO₃)_{2(aq)}
- 2 M NaOH_(aq)
- 2M HCl_(aq)
- 2M HNO_{3(aq)}
- Source of heat
- Solution A = 0.07M hydrochloric acid
- Solid B = Calcium hydroxide Fresh powder
- Solid C = Oxalic acid
- Solid X = CuSO₄ and PbCO₃ mixture in ratio 2:1
- Solid M = Malleic acid