

TEACHER.CO.KE SERIES 4

Kenya Certificate of Secondary Education

CHEMISTRY

PAPER 3

CONFIDENTIAL

Requirements for candidates.

In addition to the fittings and apparatus that are commonly in a chemistry laboratory, each candidate requires:

1. 50ml burette.
2. 25 ml pipette.
3. 2 conical flasks.
4. Solution C₁ – about 100cm³.
5. Solution C₂ – about 100cm³.
6. White tile.
7. Stand and clamp.
8. Solid K – 5g exactly.
9. 10ml measuring cylinder.
10. One 250 ml glass beaker.
11. 2 boiling tubes.
12. Thermometer.
13. Means of heating.
14. Distilled water in a wash bottle.
15. Solid F – About 3g.
16. Solid P – about 3g
17. Metallic spatula.
18. Filter paper.
19. Filter funnel.
20. Stirring rod.

21. 6 test tubes.
22. About 1g sodium hydrogen carbonate.
23. Test tube holder.

ACCESS TO:

- 2M NaOH
- 2M NH₄OH
- 0.25M Pb (NO₃)₂
- 0.25M BaCl₂
- 2M HCl
- Phenolphthalein indicator.
- Access to conc. H₂SO₄
- Access to acidified KMnO₄.
- Access to ethanol

All supplied with droppers

PREPARATION OF SOLUTIONS / SOLIDS

- Solid K
- Solid K – Potassium chlorate (V).
- Solution C₁ is prepared by dissolving 10.08g of oxalic acid in about 500cm³ and making to one litre.
- Solution C₂ is prepared by dissolving 8g of NaOH pellets in about 500cm³ of distilled water and making to 1 litre of solution.
- Solid F is a mixture of CuCO₃ and ZnSO₄ in the ratio 4 : 3 by mass respectively
- Solid P is oxalic acid.

