

TEACHER.CO.KE SERIES 11

233/3 - CHEMISTRY PAPER 3

CONFIDENTIAL

Each candidate should have the following

- 1. Exactly 5.0g of solid A Oxalic acid (supply in a stoppered boiling tube)/
- 2. Solution B 0.3M Sodium Hydroxide solution (90cm³)
- 3. Burette 50ml
- 4. Pipette filler
- 5. Pipette 25ml
- 6. Thermometer $(-10 110)^{\circ}$ C
- 7. 10cm³ measuring cylinder.
- 8. 2 conical flasks.
- 9. 250ml volumetric flask.
- 10. Means of labeling.
- 11. Solid P mixture BaCl₂ and CaO in the ratio of 3:1 (measure about 0.5g)
- 12. Solid Q about 0.5g of maleic acid.
- 13. Source of heat
- 14. Metallic spatula
- 15. Test tube holder
- 16. Filter paper
- 17. Filter funnel
- 18. 6 test tubes
- 19. Boiling tube.

Accessible to the following:

- 2M Sodium hydroxide solution with dropper.
- 2M Hydrochloric acid with dropper.
- Methyl orange indicator with dropper.
- 4M sodium sulphate solution.
- Acidified potassium dichromate (VI) with a dropper.
- Acidified potassium manganate (VII) with a dropper.
- Bromine water with a dropper.
- Phenolphthalein indicator.



• Distilled water.