SULIMO JOINT EXAMINATION

CHEMISTRY PAPER 3 CONFIDENTIAL

(a) Each student should be supplied with the following

- 1. Burette
- 2. Pipette
- 3. Pipette filler
- 4. Filter funnel
- 5. White tile
- 6. Clamp and stand
- 7. **2** conical flasks
- 8. **100 cm**³glass Beaker (empty)
- 9. Stopwatch
- 10. 1 glass rod
- 11. **100cm**³ measuring cylinder
- 12. **10cm**³measuring cylinder
- 13. **250 cm**³volumetric flask
- 14. Metallic spatula
- 15. 6 clean test tubes
- 16. Test tube holder
- 17. 500ml distilled water
- 18. White piece of paper or filter paper
- 19. 1 filter paper
- 20. 1 labelling paper
- 21. Phenolphthalein indicator
- 22. About **90cm**³ solution **K**
- 23. About **100cm**³ solution **L**
- 24. About **70cm**³ solution **N**
- 25. About **90cm**³ solution **P**
- 26. About 0.5gNaHCO₃
- 27. About **1.0g** solid **Q**
- 28. About **0.5g** solid **R**

(b) Each student should have access to the following solutions:

- **1.** Mean of heating
- **2.** 2M NaOH
- **3.** 2M HNO₃
- 4. $Pb(NO_3)$
- 5. Acidified KMNO₄
- 6. Potassium iodide solution

NB: the above solutions should be supplied with a dropper each.



(c) SOLUTIONS PREPARATION AND SOLID MEASUREMENTS

- 1. Solution K is 1M H₂SO₄
- 2. Solution L is 0.36 M NaOH containing 14.4g of NaOH in 1 litre of the solution
- 3. SolutionN is 2 M HCl
- 4. Solution P is 0.16 M Na₂S₂O₃(sodium thiosulphate)
- 5. Solid Q is a mixture 1g of sodium sulphite(Na₂SO₃) and lead (II) carbonate (PbCO₃) mixed in the ratio 1:1 (should be thoroughly mixed)
- 6. Solid **R** is maleic acid

