



KCSE ACHIEVERS PREDICTION



Kenya Certificate of Secondary Education

CONFIDENTIAL

CHEMISTRY PAPER 3

233/3

(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 flask
8. **100 cm³** glass Beaker (empty)
9. Stop watch
10. **100cm³** measuring cylinder
11. **10cm³** measuring cylinder
12. **250 cm³** volumetric flask
13. Metallic spatula
14. 6 clean test tubes
15. Test tube holder
16. **500ml** distilled water
17. White piece of paper or filter paper
18. 1 filter paper
19. 1 labelling paper
20. Phenolphthalein indicator
21. About **90cm³** solution **K**
22. About **100cm³** solution **L**
23. About **70cm³** solution **N**
24. About **90cm³** solution **P**
25. About **0.5gNaHCO₃**
26. About **1.0g** solid **Q**

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

1. Mean of heating
2. 2M NaOH
3. 2M HNO₃



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4. $\text{Pb}(\text{NO}_3)_2$
5. Acidified KMnO_4
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 H_2SO_4
2. Solution L IS 0.36 M NaOH containing 14.4g OF NaOH in 1 litre of the solution
3. Solution N IS 2M HCl
4. Solution P IS 0.16 M $\text{Na}_2\text{S}_2\text{O}_3$ (*Sodium thiosulphate*)
5. Solid Q is a mixture of sodium sulphite (Na_2SO_3) and lead (II) carbonate (PbCO_3) mixed in the ratio 1:1 (*should be thoroughly mixed*)



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