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233/3 CHEMISTRY PAPER 3 PRACTICAL JULY/AUGUST 2016

GATUNDU SUB-COUNTY SECONDARY SCHOOL

JOINT EXAMINATION

CONFIDENTIAL

CHEMISTRY CONFIDENTIAL

In addition to the fittings and chemicals found in a chemistry laboratory, each candidate will require the following:

- 1. About 120cm³ of solution K
- 2. About 150cm³ of solution N.
- 3. About 90cm³ of solution B.
- 4. Solid D about 0.5g
- 5. About 1.0g of solid E.
- 6. About 0.2g of solid sodium hydrogen carbonate.
- 7. 100ml measuring cylinder.
- 8. Two 100ml beakers.
- 9. Plain paper.
- 10. Stop watch.
- 11. 10ml measuring cylinder.
- 12. 250ml volumetric cylinder.
- 13. About 500ml of distilled water.
- 14. One label.
- 15. One 0-50ml pipette.
- 16. One 25ml pipette.

- 17. One pipette filler.
- 18. Two 250ml conical flasks.
- 19. Phenolphthalein indicator.
- 20. 6 dry test tubes.
- 21. One boiling tube.
- 22. Two filter paper.
- 23. Filter funnel.
- 24. Metallic spatula.

Access to:-

- 1. Bunsen burner.
- 2. 2M sodium hydroxide solution supplied with a dropper.
- 3. 2Mammonia solution supplied with a dropper.
- 4. 2M sodium sulphate solution supplied with a dropper.
- 5. 2M Nitric (v) acid supplied with a dropper.
- 6. Acidified potassium dichromate (vi) solution.
- 7. Acidified potassium manganate (vii) solution.

PREPARATIONS.

- 1. Solution k is prepared by dissolving 20g of sodium thiosulphate in 700cm³ of distilled water and diluting to 1 litre.
- 2. Solution B is prepared by dissolving 8g of sodium hydroxide in 800cm³ of distilled water and diluting to one litre.
- Acidified potassium manganate (vii) is prepared by dissolving 6.0g of potassium manganate (vii) in about 100cm³ of 2M sulphuric (vi) acid, adding 800cm³ of distilled water and diluting to one litre of solution.
- 4. Solid D is a mixture of $ZnCO_3$ and $Al(NO_3)_3$ in the ratio 2:1
- 5. Solid E is about 0.5g maleic acid
- 6. Solution N is 2M HCl
- 7. SOLID E: about 0.5g of malleic acid.
- 8. Solution N: 2M Hydrochloric acid.