## **4MCK JOINT EXAMINATION** FORM 4 EXAMS. JULY 2016 **CHEMISTRY** Paper 3 (Practical)

## CONFIDENTIAL

## **INSTRUCTIONS TO SCHOOLS**

These instructions are to enable the Head teacher of the school and subject Teacher of Chemistry 233/3 to make adequate preparation for this year's Form 4 Joint Evaluation Test. NO ONE ELSE should get access to the information herein.

In addition to usual provisions and fitting in the science laboratory each candidate is expected to have the following

- 1. Solution P 90cm<sup>3</sup>
- 2. Solution Q 100 cm<sup>3</sup>
- 3. Solution R 100cm<sup>3</sup>
- 4. Burette
- 5. Pipette
- 6. Stopwatch
- 7. Thermometer
- 8. A boiling tube
- 9. Six test tubes
- 10. Measuring cylinder 25ml or 50 ml
- 11. Two conical flasks
- 12. Source of heat
- 13. Distilled water in a wash bottle
- 14. Solid B about one gram
- 15. Solid L about one gram
- 16. Litmus paper (red and blue)
- rs visit. www.freekcsepastpapers.com 17. About 1 gram sodium hydrogen carbonate
- 18. Test tube holder

Access to:

- 1. 2M Sodium hydroxide
- 2. 2M Ammonia solution
  3. Barium Nitrate solution
- 4. 2M Sulphuric acid
- 5. Acidifed potassium manganate (VII)
- 6. Hot water bath

Each should be supplied with a dropper pipette

## NB:

1. Solution P is 0.02 M potassium manganate (VII) which is acidified

free P

- 2. Solution R is 0.05 molar (NH<sub>4</sub>)<sub>2</sub> SO<sub>4</sub>.FeSO<sub>4</sub>.6H<sub>2</sub>O which is acidified.
- 3. Solution Q is 0.05 M Oxalic acid/ acidified Sodium oxalate can also be used.
- Solution P is prepared by weighing 3.2g of KMnO4. Dissolve in 600 of 1 M H2SO4 and make to litre.
- Solution Q is made by weighing accurately 6.3g of Oxalic acid. Dissolve in water and make to 1 litre.
- Solid B Zinc sulphate
- Solid L Maleic acid or any suitable unsaturated organic acid.

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