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THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL CERTIFICATE OF SECONDARY EDUCATION EXAMINATION

NOVEMBER 2015

032/2A

CHEMISTRY 2A (ACTUAL PRACTICAL A)

24 HOURS ADVANCE INSTRUCTIONS

1.0 IMPORTANT

- 1.1 GREAT CARE MUST BE TAKEN NOT TO DIVULGE THESE INSTRUCTIONS TO BOTH CANDIDATES AND UNAUTHORIZED PERSONS EITHER DIRECTLY OR INDIRECTLY.
- 1.2 NOTE THAT YOU WILL NOT BE ALLOWED TO OPEN THE ENVELOPE CONTAINING THE QUESTION PAPER BEFORE THE TIME OF COMMENCEMENT OF THE EXAMINATION.

2.0 PREPARATION AND LABELLING OF CHEMICALS

2.1 Question 1

Prepare the following:

- 0.1 M hydrochloric acid solution. Label it G and allow 100 cm3 per candidate.
- 0.05 M anhydrous sodium carbonate (Na₂CO₃), label it **B** and allow 100 cm³ per candidate.
- Methyl orange indicator for sharing in the ratio of one to two candidates.

2.2 Question 2

Prepare the following:

- 0.5 M sodium thiosulphate (Na₂S₂O₃) solution. Label it U and allow 25 cm³ per candidate.
- 0.1 M hydrochloric acid (HCl) solution. Label it V and allow 50 cm³ per candidate.
- Distilled water and allow 25 cm³ per candidate; label it T.
- One stopwatch and a plain paper marked with a uniform letter X per candidate.

2.2 Question 3

- Prepare 3 g of lead (II) nitrate (Pb(NO₃)₂) and label it M.
- Provide enough distilled water 300 cm³ per candidate.
- Provide heat source or burner for sharing (candidates must not exceed four).

3.0 NOTE TO EXAMINATIONS SUPERVISOR AND LABORATORY TECHNICIAN/HEAD OF CHEMISTRY DEPARTMENT

Laboratory Technician or Head of Chemistry Department should perform an experiment of Question 1 and 2 during the last thirty (30) minutes of the examination time and submit to the Council the experimental results together with the candidates' data (Answer booklets).

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