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

NOVEMBER 2013

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 acetic acid solution. Label it JJ and allow 150 cm³ per candidate.
- 0.088 M potassium hydroxide by dissolving 4.9 g in 1000 cm³, label it KK and allow 150 cm³ per candidate.
- Provide phenolphthalein 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 L₁ and allow 75 cm³ per candidate.
- 0.1 M hydrochloric acid (HCl) solution. Label it L₂ and allow 125 cm³ per candidate.
- Distilled water and allow 75 cm³ per candidate.
- Provide one stopwatch and a white plain paper per candidate.

2.2 Question 3

- Provide 3 g of calcium carbonate. Label it U.
- Provide enough distilled water 300 cm³ per candidate.
- Heat source or burner (candidates must not exceed four for sharing).

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

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time and submit to the Council the experimental results together with the candidates' data (Answer booklets).

2.