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THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL CERTIFICATE OF SECONDARY EDUCATION EXAMINATION **NOVEMBER 2014**

032/2A

CHEMISTRY 2A (ACTUAL PRACTICAL A)

24 HOURS ADVANCE INSTRUCTIONS

IMPORTANT

- 1.1 GREAT CARE MUST BE TAKEN NOT TO DIVULGE THESE INSTRUCTIONS TO BOTH CANDIDATES AND TO 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.

PREPARATION AND LABELLING OF CHEMICALS

2.1 Question 1

Prepare the following:

- 0.05 M oxalic acid (H₂C₂O₄.2H₂O) solution. Label it H and allow 200 cm³ per candidate.
- 0.05 M potassium hydroxide solution. Label it M and allow 200 cm³ per
- Provide phenolphthalein indicator for sharing in the ratio of one to two candidates.

2.2 Question 2

Prepare the following:

- 1 M sodium thiosulphate (Na₂S₂O₃) solution. Label it Z and allow 20 cm3 per candidate.
- 0.1 M nitric acid (HNO₃) solution. Label it T and allow 20 cm³ per candidate.
- Distilled water and allow 100 cm³ per candidate.
- · One stop-watch to each candidate
- A white plain paper uniformly marked X to all candidates.

2.3 Question 3

- Provide each candidate with 3 g of lead (II) chloride (PbCl₂) and label it
- Provide about 300 cm³ distilled water per candidate.
- Heat source or burner for sharing in the ratio of one to four candidates.

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

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

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