

CONFIDENTIAL

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

NOVEMBER 2016

032/2C

**CHEMISTRY 2C
(ACTUAL PRACTICAL C)**

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 PAPERS BEFORE THE TIME OF COMMENCEMENT OF THE EXAMINATION.

2.0 PREPARATION AND LABELLING OF CHEMICALS

2.1: Question 1

Prepare the following:

- 0.0625 M sulphuric acid. Label it NN. Allow 150 cm³ per candidate.
- 0.085 M sodium hydroxide. Label it MM. Allow 150 cm³ per candidate.
- Provide methyl orange indicator for sharing, not more than two candidates.

2.2: Question 2

Prepare the following for each candidate:

- 0.05 M sodium thiosulphate; label it P₁ and allow 70 cm³ per candidate.
- 1 M nitric acid; label it P₂ and allow 70 cm³ per candidate.
- Stop watch; Thermometer; Draw a cross (X) on a white plain paper (Uniform to all candidates).

2.3: Question 3

Provide each candidate with the following:

- 3 g of ammonium carbonate ((NH₄)₂CO₃) and label it F.
 - 250 cm³ distilled water.
- Heat source for sharing (3 candidates, maximum).

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

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

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