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

NOVEMBER 2018

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 PAPERS BEFORE THE TIME OF COMMENCEMENT OF THE EXAMINATION.

2.0 PREPARATION AND LABELLING OF CHEMICALS AND APPARATI

2.1: Question 1

Prepare the following:

- 0.5 M sulphuric acid, label it X and allow 150 cm³ per candidate.
- 0.1 M of sodium hydroxide, label it Y and allow 150 cm³ per candidate.
- Methyl orange indicator for sharing, label it MO.
- Burette, pipette, titration flask, measuring cylinder (100 cm³) and stirrer.

2.2: Question 2

Prepare the following:

- 0.25 M Na₂S₂O₃; label it H₁ and provide each candidate with 50 cm³.
- 2 M HCl; label it H₂ and provide each candidate with 50 cm³.
- Distilled water.
- A white plain paper draw a cross (X) on it, uniformly to all candidates.
- Stop watch/clock; 250 cm³ beaker; 100 cm³ beaker; 10 cm³ measuring cylinder and source of heat.

2.3: Question 3

Provide the following;

- 3 g anhydrous sodium carbonate (Na₂CO₃) for each candidate, label it N.
- Distilled water.
- Bench reagents for sharing including lime water, sodium hydroxide solution and magnesium sulphate solution. Label them by their names.
- Test tubes, spatula; source of heat.

Page 1 of 3

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2.0 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. The experimental data must be recorded in the form in page 3 of these instructions and submit to the Council together with the candidates' scripts (Answer booklets).

Page 2 of 3

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