THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL OF TANZANIA CERTIFICATE OF SECONDARY EDUCATION EXAMINATION 2020

032/2A

CHEMISTRY 2A 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 TO UNAUTHORIZED PERSONS EITHER DIRECTLY OR INDIRECTLY.
- 1.2 MAKE SURE THAT THE CANDIDATES ARE PROVIDED WITH CHEMICALS AND APPARATUSES AS INDICATED IN THESE ADVANCE INSTRUCTIONS ONLY AND NOT OTHERWISE.

2.0 PREPARATION AND LABELLING OF CHEMICALS AND APPARATUSES

2.1 Question 1

- Prepare 0.1 M Na₂CO₃ solution and label it AY, provide 150 cm³ per candidate.
- Prepare 0.2 M HCl solution and label it AX, provide 150 cm³ per candidate.
- Provide each candidate with phenolphthalein (POP) indicator and methyl orange
 (MO) indicator.
- Provide each candidate with two test tubes.
- Provide each candidate with 1 burette, 1 white tile, 1 pipette (20 cm³ or 25 cm³) titration flask, 1 retort stand and a clamp.

2.2 Question 2

- Prepare 0.50 M sodium thiosulphate and label it P₁, allow 150 cm³ per candidate.
- Prepare 0.1 M hydrochloric acid and label it P₂, allow 150 cm³ per candidate.
- Provide distilled water and label it P₃; allow 80 cm³ per candidate.
- Draw a uniform mark X on one side of a 8 cm × 8 cm piece of a white paper using a blue pen and allow one piece per candidate.
- Provide each candidate with a 100 cm³ beaker.
- Provide each candidate with a 50 cm³ measuring cylinder.
- Provide each candidate with a stop watch / clock.

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

Laboratory technician or Head of Chemistry Department should perform the experiments in Question 1 and 2 during the last 30 minutes of the last session of the examination. The

Page 1 of 3

experimental data must be recorded in the form in page 3 of these instructions and enclosed together with the candidates' scripts (Answer booklets) for submission to the Examinations Council.

Page 2 of 3