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THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION
NOVEMBER 2019

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 TO UNAUTHORIZED PERSONS EITHER DIRECTLY OR INDIRECTLY.

1.2 MAKE SURE THAT THE CANDIDATES ARE PROVIDED WITH CHEMICALS AND APPARATUS AS INDICATED IN THESE ADVANCE INSTRUCTIONS ONLY AND NOT OTHERWISE.

2.0 PREPARATION AND LABELLING OF CHEMICALS AND APPARATUS

2.1 Question 1
- Prepare 0.1 M NaOH solution and label it AA, allow 150 cm³ per candidate.
- Prepare 0.1 M HCl solution and label it BB, allow 150 cm³ per candidate.
- Provide each candidate with methyl orange (MO).
- Provide each candidate with 1 burette, 1 conical flask, 1 pipette (20 cm³ or 25 cm³), 1 white tile, 1 retort stand and a clamp.

2.2 Question 2
- Provide each candidate with 7 boiling test tubes and a test tube rack.
- Provide 3 g CuCO₃ per candidate label it V.
- Provide 200 cm³ distilled water per candidate.
- Provide concentrated H₂SO₄ on the front bench, to be monitored closely.
- Provide dilute HCl, FeSO₄, Ca(OH)₂, NH₃ solution, MgSO₄ solution and NaOH as bench reagents.
- Provide 2 strips of both blue and red of litmus paper.
- Provide heat source for sharing in the ratio of 1:4.

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

Laboratory technician/teacher/Head of Chemistry Department should perform an experiment of Question 1 during the last 30 minutes of the last session of the examination. The experimental data must be recorded in the form in page 2 of these instructions and enclosed together with the candidates’ scripts (Answer booklets) for submission to the Examinations Council.

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