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

NOVEMBER 2016 -

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

2.1: Question 1
Prepare the following:
- 1 M hydrochloric acid solution. Label it Q and allow 20 cm³ per candidate.
- 0.1 M ammonium solution (NH₄OH). Label it P and allow 100 cm³ per candidate.
- Provide methyl orange indicator for sharing in the ratio of one to two candidates.

2.2: Question 2
Prepare the following:
- 0.25 M sodium thiosulphate, label it BB and allow 60 cm³ per candidate;
- 0.10 M hydrochloric acid, label it DD and allow 60 cm³ per candidate;
- A stop watch/clock and a thermometer per candidate;
- Drawn a uniform cross (X) on one side of white papers, provide one paper for each candidate.

2.3: Question 3
- Provide each candidate with 3 g of lead nitrate (Pb(NO₃)₂). Label it R.
- Distilled water
- Heat source for sharing (Two candidates).

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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