

CONFIDENTIAL

THE UNITED REPUBLIC OF TANZANIA

PRESIDENT'S OFFICE

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

132/3C

CHEMISTRY 3C

ACTUAL PRACTICAL C

3 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 a solution mixture of 4.2 g of sodium hydrogen carbonate (NaHCO_3) and 10.6 g of decahydrated sodium carbonate ($\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$) and label it **B₁**. Allow 150cm³ per candidate.
- Prepare 0.2M Hydrochloric acid and label it **B₂**. Allow 150cm³ per candidate
- Provide each candidate with MO (Methyl orange) indicator
- Provide each candidate with POP indicator

2.2 Question 2

- Measure 5g of sodium hydroxide and label it **C₁**. Allow it per candidate
- Measure 5g of anhydrous sodium carbonate and label it **C₂**. Allow it per candidate
- Provide about 100ml of distilled water (**C₃**) to each student
- 1 stirring/glass rod per student
- 1 thermometer per student
- 1 stopwatch per student

Question 3

- Provide each candidate with 4.0g of a mixture of equal amount of zinc chloride and zinc sulphate and label it **K**

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

Chief laboratory technician or Head of Chemistry department should perform an experiment of question 1 and 2 immediately after the **last session of the examination** and submit the experimental results/data **together with the candidates' results.** (Answer booklets)