

CONFIDENTIAL

THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION
OCTOBER 2009

032/2A

CHEMISTRY 2A
ALTERNATIVE A PRACTICAL
24 HOURS ADVANCE INSTRUCTIONS

1.0 IMPORTANT

- 1.1 GREAT CARE MUST BE TAKEN **NOT** TO DIVULGE THESE INSTRUCTIONS TO BOTH CANDIDATES AND UNAUTHORISED PERSONS EITHER DIRECTLY OR INDIRECTLY.
- 1.2 NOTE THAT YOU ARE **NOT** ALLOWED TO OPEN THE ENVELOPE CONTAINING THE QUESTION PAPER BEFORE THE TIME OF COMMENCEMENT OF THE EXAMINATION.

2.0 PREPARATION AND LABELLING OF CHEMICALS

2.1 **Question 1:**

Dissolve exactly 4.38 g of pure hydrochloric acid in distilled water and make the solution to 1000 cm³. Label this solution WW and allow about 150 cm³ per candidate.

Dissolve exactly 14.30 g of hydrated sodium carbonate crystals [Na₂CO₃·10H₂O] in distilled water and make the solution to 1000 cm³. Label it ZZ and allow about 150 cm³ per candidate.

Prepare methyl orange indicator, make it available for each candidate.

2.2 **Question 2:**

Prepare solid lead (II) carbonate, (PbCO₃). Label it as M and allow about 2 g per candidate.

2.3 **Question 3:**

Prepare solid sodium chloride, (NaCl). Label it as V and allow about 2 g per candidate.

These 24 Hours Advance Instructions consist of 1 printed page.

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