

CONFIDENTIAL

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THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION
NOVEMBER 2003

032/2A

CHEMISTRY 2A
ALTERNATIVE A PRACTICAL

24 HOURS ADVANCE INSTRUCTIONS

1. 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 PLEASE DO NOT OPEN THE ENVELOPE CONTAINING THE QUESTION PAPER 24 HOURS BEFORE THE TIME OF COMMENCEMENT OF THE EXAMINATION.

2. PREPARATIONS AND LABELLING OF CHEMICALS

For each question prepare the following:

2.1 Question 1

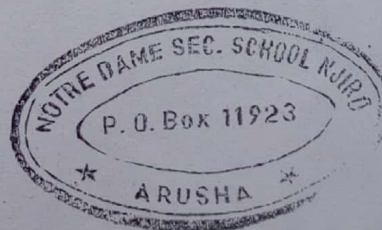
- (a) Prepare 0.1 M sodium hydroxide (NaOH) and allow 150 cm³ per candidate. Label this solution M.
- (b) Prepare 0.2449 M hydrochloric acid (HCl) and allow 150 cm³ per candidate. Label this solution K.

2.2 Question 2

Allow 2 g of solid lead (II) carbonate (PbCO₃) per candidate. Label it S.

2.3 Question 3

Allow 2 g of solid copper (II) sulphate crystal (CuSO₄·5H₂O) per candidate. Label it P.



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These 24 Hours Advance Instructions consist of 1 printed page.