

# CONFIDENTIAL

THE UNITED REPUBLIC OF TANZANIA  
NATIONAL EXAMINATIONS COUNCIL  
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION  
NOVEMBER 2002

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. Prepare the following:

2.1 Question 1

- ✓ (a) Dissolve exactly 4.0 grams of sodium hydroxide in distilled water and make the solution to 1 dm<sup>3</sup>. Allow 150 ml per candidate. Label this solution R.
- ✓ (b) Make a 0.05 M solution of sulphuric acid, allow 150 ml per candidate. Label this solution Q.

2.2 Question 2

Solid ferric nitrate. Allow 2 g per candidate and label it Z.

2.3 Question 3

Ammonium chloride crystals. Allow 2 g per candidate. Label it P.



These 24 Hours Advance Instructions consist of 1 printed page.

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