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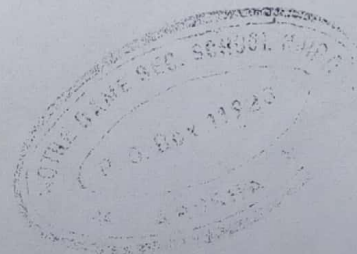
THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION
NOVEMBER 2002

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 dm³. 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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