

**THE UNITED REPUBLIC OF TANZANIA  
NATIONAL EXAMINATIONS COUNCIL  
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION  
OCTOBER 2007**

**032/2A**

**CHEMISTRY 2A  
ALTERNATIVE A PRACTICAL**

**ADVANCE INSTRUCTIONS**

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**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 PLEASE **DO NOT** OPEN THE ENVELOPE CONTAINING THE QUESTION PAPER 24 HOURS BEFORE THE TIME OF COMMENCEMENT OF THE EXAMINATION.
- 1.3 24 HOURS ADVANCE INSTRUCTIONS WILL BE PROVIDED.

2.0 In addition to the normal fittings and reagents in a normal CSE Chemistry laboratory, each candidate will require the following:

**2.1 APPARATUS**

- 3 Conical flasks ( $250\text{ cm}^3$ )
- 2 Beakers ( $250\text{ cm}^3$ )
- 1 Pipette ( $20\text{ cm}^3$  or  $25\text{ cm}^3$ )
- 1 Burette ( $50\text{ cm}^3$ )
- 5 Test tubes (pyrex)
- 1 Watch glass/petri dish
- 1 Bunsen burner

**2.2 CHEMICALS**

- 5 g of sulphuric acid
- 2 g of sodium hydroxide
- $10\text{ cm}^3$  of methyl orange indicator
- 2 g of calcium nitrate
- 2 g of copper chloride
- 0.5 g of barium chloride
- 0.5 g of ferrous sulphate
- $5\text{ cm}^3$  of ammonium hydroxide
- 0.5 g of potassium ferrocyanide
- 0.5 g of silver nitrate

These Advance Instructions consist of 1 printed page.