

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

032/2A

**CHEMISTRY 2A
ALTERNATIVE A PRACTICAL**

ADVANCE INSTRUCTIONS

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 cm^3)
- 2 Beakers (250 cm^3)
- 1 Pipette (20 cm^3 or 25 cm^3)
- 1 Burette (50 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 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 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.