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

NOVEMBER 2017

032/2A  CHEMISTRY 2A
(ACTUAL PRACTICAL A)

24 HOURS 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 NOTE THAT YOU WILL NOT BE ALLOWED TO OPEN THE ENVELOPE CONTAINING THE QUESTION PAPERS BEFORE THE TIME OF COMMENCEMENT OF THE EXAMINATION.

2.0 PREPARATION AND LABELLING OF CHEMICALS

2.1: Question 1
Prepare the following:
• 0.1 M hydrochloric acid, label it PP and provide 125 cm³ per candidate.
• A solution made by dissolving 5.23 g of sodium carbonate in distilled water to make 1 dm³ of solution, label it RR and provide each candidate with 125 cm³.
• Methyl orange indicator, label it MO, it should be shared by 2 candidates only.

2.2: Question 2
Prepare the following:
• A solution made by dissolving exactly 20 g of sodium thiosulphate in 1 dm³ of solution, label it E and allow 80 cm³ per each candidate.
• 2 M nitric acid, label it F and allow 50 cm³ per each candidate.
• Distilled water, label it G, allow 80 cm³ per candidate.
• Draw a cross (X) by using a blue ink pen on a white sheet of paper and provide each candidate.
• A stop watch/clock.

2.3: Question 3
• Prepare 4 g iron(II) sulphate FeSO₄ 7H₂O for each candidate and label it Q.
• Heat source (sharing for 2 candidates).
• Distilled water.

3.0 NOTE TO EXAMINATIONS SUPERVISOR AND LABORATORY TECHNICIAN/HEAD OF CHEMISTRY DEPARTMENT
Laboratory Technician or Head of Chemistry Department should perform an experiment of Question 1 and 2 during the last thirty (30) minutes of the examination time. The experimental data must be recorded in the form in page 2 of these instructions and submit to the Council together with the candidates’ scripts (Answer booklets).

Page 1 of 2

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