

CONFIDENTIAL

**THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION 2020**

034/2

**AGRICULTURAL SCIENCE 2
PRACTICAL**

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 PLEASE DO **NOT** OPEN THE ENVELOPE CONTAINING THE QUESTION PAPERS 24 HOURS BEFORE THE TIME OF COMMENCEMENT OF THE EXAMINATION.

2.0 PREPARATION AND LABELLING FOR THE SPECIMENS, APPARATUSES AND TOOLS

2.1 Question 1

Provide each candidate with the following:

- (i) 3 measuring cylinders (250 mls). Label them **A, B** and **C** respectively.
- (ii) 100 g of sand soil sample (in particle form). Label it **A**.
- (iii) 100 g of loam soil sample (in particle form). Label it **B**.
- (iv) 100 g of clay soil sample (in particle form). Label it **C**.
- (v) 3 filter funnels with a brim diameter of 90 mm. Label them **A, B** and **C** respectively.
- (vi) 6 filter papers.
- (vii) Handful of cotton wool.
- (viii) Clean water (at least two litres)/source of water in the laboratory.
- (ix) Weigh scale.
- (x) Stop watch/clock.
- (xi) 250 cm³ beaker.
- (xii) • 1 smooth file. Label it **Z**.
- (xiii) • 1 second cut file. Label it **X**.
- (xiv) • 1 bastard file. Label it **Y**.
- (xv) 1 rough file. Label it **W**.

Page 1 of 3

CONFIDENTIAL

CONFIDENTIAL

(xvi) 1 ruler.

2.2 Question 2

Provide each candidate with the following:

- (i) Tapeworm in a watch glass. Label it J_1 .
- (ii) Roundworm in a watch glass. Label it J_2 .
- (iii) Liver fluke in a watch glass. Label it J_3 .
- (iv) Hand lens.

3.0 NOTE TO EXAMINATIONS SUPERVISOR AND LABORATORY TECHNICIAN / HEAD OF AGRICULTURAL SCIENCE DEPARTMENT

Laboratory technician/ teacher/Head of Agricultural Science Department should arrange specimens, chemicals, apparatuses and tools systematically so that during the examination, candidates are able to see and identify them easily in both of the questions. The declaration form in page 3 of these instructions must be dully filled in and enclosed **together with the candidates' script** (Answer booklets) for submission to the Examination Council.