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**THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION
NOVEMBER 2019**

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 OF THE APPARATUSES, SPECIMENS AND TOOLS

2.1 Question 1

- (i) Provide each candidate with Tsetse fly in a watch glass. Label it **K**.
- (ii) Provide each candidate with 1 hand lens.
- (iii) Provide each candidate with 1 forceps.
- (iv) Provide 1 rip saw for 8 candidates. Label it **A** and allow it to be shared among them after 1 candidate has used it.
- (v) Provide 1 cross cut saw for 8 candidates. Label it **B** and allow it to be shared among them after 1 candidate has used it.

2.2 Question 2

- (i) Provide each candidate with 50 g of moist sandy soil in a petri dish. Label it **F₁**.
- (ii) Provide each candidate with 50 g of moist clay soil in a petri dish. Label it **F₂**.

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- (iii) Provide each candidate with 50 g of dry sandy soil in a petri dish. Label it F_3 .
- (iv) Provide each candidate with 50 g of dry clay soil in a petri dish. Label it F_4 .
- (v) Provide about 100 cm^3 of water per candidate in a 100 cm^3 beaker.

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 fully filled in and enclosed **together with the candidates' script** (Answer booklets) for submission to the Examination Council.