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

033/2C **BIOLOGY 2C**

(ACTUAL PRACTICAL C)
(For Both School and Private Candidates)

Time: 2:30 Hours **Wednesday, 15th November 2017 a.m.**

Instructions

1. This paper consists of **two (2)** questions. Answer **all** the questions.
2. Each question carries 25 marks.
3. Except for diagrams which must be drawn in pencil, all writing must be in blue or black ink.
4. Calculators, cellular phones and any unauthorised materials are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s).

1. You have been provided with solution A. The solution contains various food substances.

(a) Use the chemicals and reagents provided to identify the food substances present in solution A. Tabulate your work as shown in Table 1.

Table 1

Food Tested	Procedure	Observations	Inference

(b) State the importance of each food identified in 1(a) in the human body.

(c) Give two type of food sources from which each food substance identified in 1(a) could have been extracted.

(d) One of the food substances identified in 1(a) is very important for children under five years.
(i) Name the disease which develops when the diet provided to a child lacks that food substance.
(ii) State the symptoms of a disease mentioned in (d) (i).

2. You have been provided with specimens T_1, T_2 and T_3.

(a) Using a hand lens, study the specimens carefully and;
(i) Identify each specimen by its common name.
(ii) Classify each specimen T_1, T_2 and T_3 from Kingdom to Phyla/Division level.
(iii) Why specimen T_2 is said to have advantages to a farmer?.
(iv) Identify four general characteristics which influenced you to place specimen T_3 in the Phylum/Division you named in (a)(ii).
(v) Draw a well labelled diagram of specimen T_3.

(b) Study carefully specimen T_1 and T_2 and;
(i) State two observable differences between T_1 and T_2.
(ii) State the habitats of each specimen T_1, T_2 and T_3.