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

033/2C

BIOLOGY 2C
ALTERNATIVE C PRACTICAL
(For both School and Private Candidates)

Time: 2:30 Hours **Wednesday, 20th October 2010 a.m.**

Instructions

1. This paper consists of **two (2)** questions.
2. Answer **all** questions.
3. Each question carries 25 marks.
4. Except for diagrams which must be drawn in pencil all writings should be in blue/black/ball point pen.
5. Calculators are **not** allowed in the examination room.
6. Cellular phones are **not** allowed in the examination room.
7. Write your **Examination Number** on every page of your answer booklet(s).

This paper consists of 2 printed pages.

1. (a) You have been provided with various food samples S_1 and S_2.
Carry out experiments to identify the food substance(s) found in each sample
Tabulate your results as in Table 1 below.

Test for	Procedure	Observation	Inference

(b) (i) What kind of disease in which young children suffer from a lack of a certain food substance found in S_2?
(ii) What is the food substance referred in (b) (i)?
(iii) Give three (3) examples of the sources containing the food substance mentioned in (b) (ii).

(c) What are the functions of the food substances identified in S_1 and S_2 in the human body?

2. Examine the specimens **A, B, C, D, E** provided and answer the questions that follow:

(a) (i) Identify specimens **A, B, C, D** and **E** by their common names.
(ii) Mention the Phylum and class of each of the organisms.
(iii) Why are specimens **A** and **E** classified under the same class?

(a) What distinctive features place specimens **A, B** and **C** into their respective classes?

(b) (i) Identify the habitats of **A, C** and **D**.
(ii) State the economic importance of specimen **C**.