

**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**.