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

033/2A

BIOLOGY 2A
(ACTUAL PRACTICAL A)
(For Both School and Private Candidates)

Time: 2:30 Hours ***Friday, 07th October 2011 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 writings should be in blue or black pen.
4. Calculators are **not** allowed in the examination room.
5. Cellular phones are **not** allowed in the examination room.
6. Write your **Examination Number** on every page of your answer booklet(s).

1. The solution prepared contained various food substances.

(a) Use the chemicals and reagents provided to identify the food substances present in solution S_1. Tabulate your work as shown in the following Table:

FOOD TESTED	PROCEDURE	OBSERVATION	INFERENCE

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

(c) Name two enzymes necessary for digestion of food substance(s) identified in (a) above.

(d) To each type of food identified above, name at least one source in which the food has been extracted.

2. Study specimen **A**, **B** and **C** then:

(a) Write the common names of specimen **A**, **B** and **C**.

(b) Classify specimen **A** and **B** to the phylum level.

(c) State the habitat and one economic importance of specimen **A**.

(d) Outline four economic importance of specimen **B**.

(e) Use the scalpel provided to cut specimen **C** longitudinally into two equal halves. Then, draw a neat, well labelled diagram of a specimen.

(f) Name the division of specimen **C**.

(g) State the observable features you can use to place the specimen into its respective phylum/division.