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

033/2B

BIOLOGY 2B
(ACTUAL PRACTICAL B)

(For Both School and Private Candidates)

Time: 2:30 Hours ***Thursday, 13th 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. Solution **D** contains different food substances;

(a) Using the chemicals and reagents provided, carry out food test to identify the food substance present in solution **D**. Tabulate your work as shown in the following Table:

FOOD TESTED	PROCEDURE	OBSERVATION	INFERENCE

(b) For each food substance identified in 1(a) above, name the end product after digestion.

(c) From the food substances identified in 1(a) above, which one must be excreted out of the body by the kidney when it is in excess?

(d) Briefly explain what would happen when excess food named above is allowed to accumulate in the body.

2. You have been provided with specimens G_1, G_2, G_3, G_4, and G_5.

(a) Using a hand lens, carefully study the specimens then:
   (i) Identify each specimen by its common name.
   (ii) Classify G_1 and G_5 to class level.
   (iii) State two economic importance of specimen G_2.
   (iv) Draw a well labeled diagram of specimen G_2.

(b) (i) State two differences between G_4 and G_5.
   (ii) State two similarities between specimen G_4 and G_5.