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.
- Each question carries 25 marks.
- Except for diagrams which must be drawn in pencil, all writings should be in blue or black pen.
- Calculators are not allowed in the examination room.
- Cellular phones are not allowed in the examination room.
- Write your Examination Number on every page of your answer booklet(s).

- Solution D contains different food substances;
 - 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.
- You have been provided with specimens G₁, G₂, G₃, G₄, and G₅.
 - (a) Using a hand lens, carefully study the specimens then:
 - (i) Identify each specimen by its common name.
 - (ii) Classify G1 and G5 to class level.
 - (iii) State two economic importance of specimen G2.
 - (iv) Draw a well labeled diagram of specimen G2.
 - (b) (i) State two differences between G₄ and G₅.
 - (ii) State two similarities between specimen G₄ and G₅.