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

_{033/2}C

BIOLOGY 2C (ACTUAL PRACTICAL C)

(For Both School and Private Candidates)

Time: 2:30 Hours

Monday, 22nd October 2012 a.m.

Instructions

- 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 ink.
- 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. You have been provided with solution N.
 - Using the chemicals and reagents provided, carry out food test to identify the food (a) substances present in solution N. Tabulate your work as shown:

Food Tested	Procedure	Observation	Inference

- (b) For the food substances identified in 1(a).
 - Name at least two sources for each food substance.
 - Name the food substances which play a vital role in children growth. (ii)
 - (iii) Mention the disease which could develop to a child whose diet misses the food substance named in (b) (ii).
 - (iv) State five symptoms of the condition that will happen to the child in (b) (iii).
- 2. Observe specimens M1, M2, M3 and M4 then: (a)
 - Identify specimens M_1 , M_2 , M_3 and M_4 by their common names. (i) (ii)
 - Use the scalpel provided to cut specimen M1 longitudinally into two equal halves. Then, draw a well labeled diagram of one half of a cut section. (iii)
 - State one function of each part you have labeled in a diagram above. (iv)
 - State two advantages of specimen M1.
 - Study specimen M_2 and M_3 carefully, then answer the following questions based on (b) (i)
 - How do the two specimens differ?
 - How similar are the two specimens? (ii)
 - (c) Name the Class in which specimen M_4 belongs. Give two reasons to support (i) (ii)
 - State one disadvantage of specimen M4