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

033/2C

BIOLOGY 2C (ACTUAL PRACTICAL C)

(For Both School and Private Candidates)

Time: 2:30 Hours

Monday, 18th November 2013 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 ink.
- 4. Calculators and cellular phones are **not** allowed in the examination room.
- 5. Write your **Examination Number** on every page of your answer booklet(s).

- You have been provided with solution A which contains various food substances. 1.
 - Use the chemicals and reagents provided to identify the food substances present in (a)

| Food Tested | Procedure | Observations | Inference |
|-------------|-----------|--------------|-----------|
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| State 41 C | | | |

- (b) State the function of each food substance identified in 1(a).
- To each food substance identified 1(a), name at least two sources in which it has been (c)
- One of the food substances identified in 1(a) is very important for child development. (d)
 - (i) Mention one disease which can develop when the diet provided to a child lacks
 - (ii) State the symptoms of a disease mentioned in (d)(i).
- 2. You have been provided with specimens B_1 , B_2 and B_3 .
 - Using a hand lens, study the specimens carefully and; (a)
 - Identify each specimen by its common name. (ii)
 - Name the Kingdom and Phylum/Division in which each specimen B₁, B₂ and B₃ (iii) State four advantages of specimen B₃.

 - (iv) Draw a well labeled diagram of specimen B₃.
 - Study carefully specimen B_1 and B_2 then: (b)
 - State four observable differences between B_1 and B_2 . (ii)
 - State the habitats of specimen B_1 , B_2 and B_3 .