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

033/2A

BIOLOGY 2A ALTERNATIVE A PRACTICAL

(For both School and Private Candidates)

Time: 2:30 Hours

Friday 8th, October 2010 a.m.

Instructions

- This paper consists of two (2) questions.
- Answer all questions.
- Each question carries 25 marks.
- Except for diagrams which must be drawn in pencil all writings should be in blue/black/ball point 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).

This paper consists of 2 printed pages.

- 1. You have been provided with solution T_1 .
 - (a) Carry out food tests to identify the substances present in solution T_1 . Record your v in a table as shown below.

Test for	Procedure	Observation	Inference

- (b) What are the functions of the food substances identified in T_1 in the human body?
- (c) State the favourable/suitable pH condition at which the enzymes which digest the food substances present in T₁ work best.
 - (ii) Which of the food substances present in T₁ is not stored in the human body?
 - (iii) What happens when the levels of this substance mentioned in (c) (ii) above, ri in the body?
- 2. You are provided with specimens A, B, C, D and E. Observe them carefully and answer questions that follow:
 - (a) (i) Write down the common names of specimens A, B, C, D and E.
 - (ii) To which kingdom do specimens C and D belong?
 - (iii) Name one (1) common epidemic disease transmitted by specimen A.
 - (b) (i) Draw a large well labelled diagram of specimen C.
 - (ii) State the economic importance of specimen C.
 - (c) (i) What are the distinguishing characteristics of the Phylum/Division to which specimen E belongs?
 - (ii) Where can specimen E be found?