

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

/2B

**BIOLOGY 2B
(ACTUAL PRACTICAL B)
(For Both School and Private Candidates)**

Time: 2:30 Hours

Thursday, 13th November 2014 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.

Calculators and cellular phones are **not** allowed in the examination room.

Write your **Examination Number** on every page of your answer booklet(s).

1. You have been provided with solution N.

- (a) Carry out food test experiments to identify the food substance(s) present in solution N. Record your experimental work as shown in Table 1.

Table 1:

Food tested	Procedure	Observation	Inference

- (b) State the role(s) of the food substances identified in 1(a) above to a person who has just recovered from malaria.
- (c) Which enzymes in the small intestine are involved in the digestion of the food substance(s) identified in 1(a)?
- (d) State four adaptive features which enable the ileum to absorb digested food efficiently.

2. Study specimens E_1 , E_2 and E_3 then answer the following questions.

- (a) Name the Kingdom of each specimen E_1 , E_2 and E_3 .
- (b) State three characteristics of each kingdom you named in 2(a).
- (c) State the differences between specimens E_1 and E_3 with respect to:
- (i) Habitat
 - (ii) Mode of nutrition.
- (d) State two advantages and one disadvantage for each of specimen E_1 , E_2 and E_3 .