

**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, 13<sup>th</sup> November 2014 a.m.**

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**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  $E_3$ .