

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

033/2B

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

Time: 2:30 Hours

Friday, 11th November 2016 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 phone are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s).



1. You have been provided with solution **K**.

- (a) Perform experiments using the reagents provided to identify the type of food substance(s) present in the solution. Tabulate your results as shown in Table 1.

Table 1

Food tested	Procedure	Observations	Inference

- (b) For the food substance(s) identified in 1(a):
- Name the end product of digestion in the alimentary canal of human being
 - Explain one function of each food substance in the body of the human being.
 - Mention which food substance identified in 1(a), its digestion starts at the mouth?
- (c) Name other type(s) of food which should be added to the food substance(s) identified in 1(a) to make a balanced diet.

2. You have been provided with specimens **W**, **X**, **Y** and **Z**.

- (a) Study specimens **W**, **X**, **Y** and **Z** carefully, then:
- Identify specimens **W**, **X**, **Y** and **Z** using their common names.
 - State two observable similarities and differences between specimen **W** and **X**.
 - Classify specimen **X** and **Z** to Class level.
 - Give two examples of organisms belong to the same Class as specimen **X**.
 - State two advantages of specimen **W**.
- (b) Observe the structure of specimen **Y**.
- Name a Class in which the specimen **Y** belongs.
 - Draw a diagram of specimen **Y** and label any eight parts.
 - Outline three distinctive characteristics of the Class in which specimen **Y** belongs.
- (c) Explain three ways in which specimen **Z** contributes to soil improvement?