

THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
DIPLOMA IN SECONDARY EDUCATION EXAMINATION

733/2B

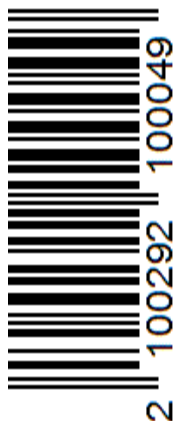
BIOLOGY 2B
(ACTUAL PRACTICAL 2B)

Time: 3 Hours

Year: 2022

Instructions

1. This paper consists of **three (3)** questions.
2. Answer **all** questions.
3. Question number **one (1)** carries **twenty (20)** marks and the rest carry **fifteen (15)** marks each.
4. Cellular phones and any unauthorized materials are not allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet (s)



1. Dissect the provided specimen **T** in the usual way to display the reproductive system and respond to the following questions:

- (a) Why should the specimen be anaesthetized before dissection?
- (b) Draw a diagram of the dissected specimen **T** and label five parts that form the reproductive system.
- (c) What is the sex of specimen **T**? Give four reasons.

2. You are provided with solution **U** and answer the following questions:

- (a) Using the reagents provided, carry out the biochemical test to identify food substance (s) contained in solution **U**. Tabulate your results, as shown in the following table:

Food Test	Procedure	Observation	Inference

- (b) Identify two natural food stuffs from which solution **U** could have been extracted from.
- (c) State the first site of digestion, the digestive juice and the product of digestion of the food substances identified in solution **U**.

3. Observe the provided specimens **V**, **W** and **Y** and then answer the following questions:

- (a) In what ways is specimen **Y** useful to human beings? Give two points.
- (b) Why is specimen **Y** placed in the Class Insecta? Give three reasons.
- (c) Using three observable features, differentiate between specimen **V** and **Y**.
- (d) Draw specimen **W** and label three parts