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 unathorized 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