THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATIONS COUNCIL OF TANZANIA

DIPLOMA IN SECONDARY EDUCATION EXAMINATION

733/2A **BIOLOGY 2A**

(ACTUAL PRACTICAL 2A)

Time: 3 Hours **Year: 2023**

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)

2 100192 100828

1. Dissect the provided specimen **M** in the usual way and display the digestive system. Deflect the alimentary canal to the left-hand side of the specimen and answer the following questions:
    a) Draw a diagram of the dissected specimen **M** and label seven parts concerned with digestion.
    b) Which precautions did you take when opening the inner skin? Give two points.
2. You are provided with solution **R** and required to answer the following questions:
    a) Using the provided reagents, carry out the biochemical test to identify food substances contained in solution **R**. Tabulate your result as shown in the following table: -

Food Tested	**Procedure**	**Observation**	**Inference**

    b) State the role of each of the food substances identified in solution **R** to human body.
    c) Why was heat required during the testing of food substance identified in solution **R**?
3. You provided with specimens **A, B** and **C,** observe them and answer the following questions:
    (a) (i) What are observable features used to place specimen A into its respective kingdom? Give two points.

    (ii) In what ways is specimen **A** is successfully adapted to its habitat? Give three points.

    (iii) How is specimen **A** important for industrial development. Give three point.

    (b) (i) Identify the name of the organism from which specimen **B** was taken.

(ii) How is the specimen **B** important to the organism from which it was taken? Give two points.

c) What are the observable features used to place specimen **C** into its respective class? Give three points.