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: 2021**

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 pecimen **Y** in the usual way to display the viscera in-situ system and respond to the following questions:

    (a) Draw a large, neat, well labelled diagram, indicating ten organs observed in your dissection.

    (b) Classify specimen **Y** to the Class level.

    (c) Which organ observed in specimen **Y** is responsible for blood sugar regulation in the human body?

    (d) Identify the organ (s) responsible for protein digestion in specimen **Y**.

    (e) What three observable features were used to classify specimen **Y** to its particular class?

2. Use provided solutions **R1** and **R2**, carry out biochemical test, and then answer the following questions:

    (a) Using the reagents provided, carry out experiments to identify food substance(s) contained in solutions **R1** and **R2.** Tabulate your report, as shown in the following table:

Food Test	Procedure	Observation	Inference

    (b) Name the end product of each food substance(s) identified from solutions **R1** and **R2** after digestion.

3. Youre provided with specimens **G1 , G2** and **G3.** Observe the specimens carefully and then answer the following questions:

    (a) Identify each of the specimens **G1, G2** and **G3** by its common name.

    (b) Classify each of the specimens **G1, G2** and **G3** to the class level.

    (c) Draw a well labelled diagram of specimen **G1**.

    (d) Explain three advantages of specimen **G3** to the ecosystem.

    (e) State three observable features which were used to classify specimen **G2** to its respective class.