

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

033/2A

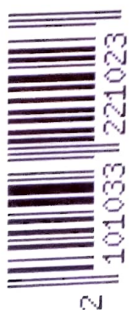
BIOLOGY 2A
(ACTUAL PRACTICAL A)
(For Both School and Private Candidates)

Time: 2:30 Hours

Year: 2022

Instructions

1. This paper consists of **two (2)** questions. Answer **all** the questions.
2. Each question carries **twenty five (25)** marks.
3. Except for diagrams which must be drawn in pencil, all writings should be in blue or black ink.
4. Cellular phones and any unauthorised materials 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 longitudinal sections of specimens **T₁** and **U**. Study carefully the specimen **T₁** and **U** with their cutting side facing upward and then answer the following questions:
- (a) What is the type of reproduction exhibited by specimen **T₁** and **U**?
 - (b) Give two advantages and disadvantages of the types of reproduction exhibited by specimen **T₁**.
 - (c) Draw the diagrams of specimens **T₁** and **U** and label their internal and external parts.
 - (d) Which process would not proceed normally if the internal part of specimens **U** and **T₁** are totally removed from the live plants?
 - (e) State two economic importance of the specimen **T₁** in our daily life.
2. You have been provided with specimens **L**, **M**, **N** and **P**. Using a hand lens, carefully study the specimens and then answer the following questions:
- (a) Why is it not recommended to place the specimens **L**, **M** and **N** in the same Kingdom. Give reasons.
 - (b)
 - (i) Classify specimens **L**, **M** and **N** to Class level.
 - (ii) State two reasons for placing the specimens **M** and **N** in their respective Classes in (b)(i).
 - (iii) In what ways do the members of the Class in which specimen **L** belongs advantageous to other living organisms?
 - (c) Carefully observe the specimen **P** and then answer the following questions:
 - (i) In which Phylum does the specimen **P** was taken? Give reason to support your answer.
 - (ii) Name four organisms which can be placed in the same Phylum/Division of specimen **P**.
 - (iii) What are the advantages of specimen **P** in daily life? Give three points.