

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

**033/2B**

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

**Time: 2:30 Hours**

**Thursday, 12<sup>th</sup> November 2015 a.m.**

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**Instructions**

1. This paper consists of **two (2)** questions. Answer **all** the questions.
2. Each question carries **25** marks.
3. Except for diagrams which must be drawn in pencil, all writings should be in blue or black ink.
4. Calculators and cellular phones are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s).

1. Study specimens **R, S, T** and **U** then answer the questions that follow.
  - (a)
    - (i) Identify specimens **R, S, T** and **U** by their common names.
    - (ii) What part of a plant are specimen **R, S, T** and **U**?
    - (iii) Draw and label a diagram of specimen **R**.
    - (iv) Name the type of reproduction common in specimens **R** and **S**. Give reason to support your answer.
    - (v) Briefly explain three advantages and two disadvantages a farmer get in crop production by using a type of reproduction you named in (a) (iv).
  - (b) Name the type of pollination which is likely to take place in specimen **U**. Give reason to support your answer.
  - (c) Carefully remove all the sepals, petals and the entire stamen tube from specimen **U** then:
    - (i) Give the name of the remaining part of a specimen **U**.
    - (ii) Draw a well labelled diagram to show the structures of the remaining part of a specimen **U**.
2. You have been provided with specimens **W, X** and **Y**.
  - (a) Observe these specimens then:
    - (i) Identify specimens **X** and **Y** by their common names.
    - (ii) Classify specimens **W, X** and **Y** to Phylum/Division level.
  - (b) List three distinctive features used to place each specimen **W, X** and **Y** in their respective Kingdom.
  - (c) State where specimens **X** and **Y** could be found?
  - (d) State two advantages and one disadvantage of each specimen **X** and **Y**.