

**THE UNITED REPUBLIC OF TANZANIA  
NATIONAL EXAMINATION COUNCIL  
DIPLOMA IN SECONDARY EDUCATION EXAMINATION**

**733/2B**

**BIOLOGY 2B  
(ACTUAL PRACTICAL B)**

**Time: 3 Hour.**

**17/05/2000 a.m**

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**Instructions**

1. This paper has three papers.
2. Answer **all** questions.
3. Question **1** contains 30 marks while question 2 and 3 have 10 marks each.
4. Mobile phones are not allowed inside the examination room.
5. Write your Examination Number on every page of your answer booklet.

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1. Dissect the provided specimen Y to expose the reproductive system.
  - (a) Draw a well-labelled diagram of the reproductive system showing five parts.
  - (b) Determine the sex of specimen Y. Give four justifications based on your observation.
  - (c) Why is it important to stun or anaesthetize a specimen before dissection?

2. You are provided with solution Z .Use the reagents provided to perform food tests.

- (a) Complete the biochemical test and tabulate your findings below:

Food Tested	Procedure	Observation	Inference

- (b) Name two natural food sources from which solution Z might have been obtained.
    - (c) State the first site of digestion, the digestive juice involved, and the end product of the food substance tested from solution Z.
3. Observe the following specimens: A, B, C, D, and E. Then respond to the following:
  - (a) What are four observable differences between specimen A and B?
  - (b) Give two reasons why specimen C is placed under Class Insecta.
  - (c) List three adaptive features of specimen D that enable it to grow in sandy soil.
  - (d) Draw specimen E and label three visible parts.