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**

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.

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.