THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN SECONDARY EDUCATION EXAMINATION

733/2B **BIOLOGY 2B**

(ACTUAL PRACTICAL B)

Time: 3 Hour. **Wednesday 11/05/2005 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 specimen **Z** (Frog/Toad) to expose the reproductive system.

(a) (i) Draw and label five reproductive structures.

(ii) Indicate the route gametes travel.

(b) (i) Name the sex organs observed.

(ii) What are the functions of each identified structure?

(c) (i) List four physical features that indicate the sex.

(ii) State why care must be taken not to damage blood vessels during dissection.

2. You are provided with solution **A**.

(a) Carry out food tests and tabulate results.

(b) (i) Name two likely food items solution A was derived from.

(ii) Indicate first digestion site, juice involved, and final products.

(c) (i) Explain how enzymes function in digestion.

(ii) What factors affect enzyme activity?

3. Observe specimens **B**, **C** and **D**.

(a) (i) Identify four features common to all three.

(ii) Mention two uses of specimen B to agriculture.

(b) (i) List three external parts of specimen D.

(ii) Draw specimen C and label five parts.