THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN SECONDARY EDUCATION EXAMINATION

733/2B **BIOLOGY 2B**

(ACTUAL PRACTICAL B)

Time: 3 Hour. **Tuesday 16/05/2007 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 **M** to display its reproductive system.

(a) (i) Draw a well-labelled diagram showing at least four parts of the reproductive system.

(ii) Indicate the position of the kidneys and oviducts/testes.

(b) (i) Identify the organ for gamete production.

(ii) Which organ temporarily stores gametes?

(iii) Name the organ used to transport gametes.

(c) (i) What is the consequence of cutting the anterior abdominal vein?

(ii) Why is water added during dissection? Give two points.

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

(a) (i) Perform food tests using the provided reagents.

(ii) Complete the following table:

Food Tested	Procedure	Observation	Inference

(b) (i) State two food items that can give rise to such a solution.

(ii) Name the first site of digestion, the juice involved, and the end product.

(c) (i) Mention three roles of the identified food substances.

(ii) State one negative health effect of lacking this food substance.

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

(a) (i) List three differences between specimen C and D based on observable features.

(ii) Identify two uses of specimen D in daily life.

(b) (i) Observe the lower surface of specimen E and name the structures seen.

(ii) State the role of those structures.

(c) Draw specimen D and label five parts.