THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN SECONDARY EDUCATION EXAMINATION

733/2A **BIOLOGY 2A**

(ACTUAL PRACTICAL A)

Time: 3 Hour. **Tuesday 15/05/2001 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 J in the usual way to expose the reproductive system. Then respond to the following:

(a) Draw a well labelled diagram of the dissected specimen J showing four parts of the reproductive system.

(b) Identify the organ responsible for the following functions:

(i) Production of sperm or egg

(ii) Temporary storage of gametes

(iii) Transportation of gametes

(c) What would happen if the anterior abdominal vein is accidentally punctured during dissection?

(d) State two reasons why water is poured into the body cavity during the dissection.

2. You are provided with solution K. Perform the following biochemical tests:

(a) Using the given reagents, test the solution for food substances and record your results in the table:

Food Tested	Procedure	Observation	Inference

(b) Mention two natural food sources from which solution K could have been extracted.

(c) State the first site of digestion, digestive juice, and end product of the identified food substance in solution K.

3. Observe specimens W , X , Y, Z, and AA. Answer the following:

(a) Mention four observable differences between specimen W and X.

(b) Mention four observable differences between specimens Z and AA.

(c) Draw specimen Z and label four visible structures.