THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN SECONDARY EDUCATION EXAMINATION

733/2B **BIOLOGY 2B**

Time: 3 Hour. **Wednesday, 17 May 2017**

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 display the reproductive system.

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

(b) Identify the organs responsible for:

(i) Production of gametes

(ii) Temporary storage of gametes

(iii) Transportation of gametes

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

(d) Give two reasons why water should be flooded into the body cavity after opening.

2. You are given **solution T**.

(a) Perform biochemical food tests on solution T using provided reagents. Record your findings in a table:

Food Tested	Procedure	Observation	Inference

(b) Name two food sources from which solution T might have been extracted.

(c) Mention the first site of digestion, digestive juice involved, and end products for each identified food substance.

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

(a) Use four observable features to differentiate between:

(i) Specimen A and B

(ii) Specimen C and E

(b) Draw a labelled diagram of specimen D showing four visible parts.