**THE UNITED REPUBLIC OF TANZANIA**

**NATIONAL EXAMINATION COUNCIL**

**DIPLOMA IN SECONDARY EDUCATION EXAMINATION**

**733/2B** **BIOLOGY 2B**

**(ACTUAL PRACTICAL B)**

**Time: 3 Hour.** **Wednesday 13/05/2009 a.m**

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**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 expose reproductive organs.

(a) Draw a labelled diagram showing five reproductive parts.

(b) State sex of M and give four reasons.

(c) Why should anaesthesia be used before dissection?

**2.** You are provided with solution **R** (Sucrose).

(a) Conduct food tests and complete the table:

| Test For | Procedure | Observation | Inference |
|---|---|---|---|
| | | | |

(b) Name two natural food sources of solution R.

(c) Identify:

(i) First site of digestion

(ii) Digestive juice

(iii) End product of digestion

**3.** Observe specimens **S**, **T** and **U**.

(a) Give two ways specimen T is important to humans.

(b) List three features placing T in Class Insecta.

(c) Use three features to differentiate S and T.

(d) Draw specimen U and label three parts.