

**THE UNITED REPUBLIC OF TANZANIA  
NATIONAL EXAMINATION COUNCIL  
DIPLOMA IN SECONDARY EDUCATION EXAMINATION**

733/2A

**BIOLOGY 2A  
(ACTUAL PRACTICAL A)**

**Time: 3 Hour.**

**Tuesday 15/05/2012 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.

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**1. Dissect specimen Z to expose reproductive and excretory systems.**

- (a) Draw a well-labelled diagram showing two parts from each of the two systems.
- (b) State the function of each reproductive part drawn.
- (c) What is the sex of specimen Z? Give three justifications.
- (d) Observe the threadlike structures present and state why they are numerous.

**2. Use solution M and reagents provided to perform food tests.**

- (a) Carry out food tests on solution M and fill the table below:

Food Test	Procedure	Observation	Inference

- (b) State three biological roles of food substances identified.
- (c) (i) Name one enzyme responsible for digestion of the food identified.
- (ii) State the end products of digestion.

**3. Observe specimens U (Palm plant), N (Fish scale), and R (Groundnut seedling).**

- (a) Give two observable features used to classify specimen U into its kingdom.
- (b) Give three adaptive features of specimen U for dry conditions.
- (c) (i) Name the organism where specimen N originated.
- (ii) State two functions of N to the organism.
- (d) What features are used to place specimen R into its class? State three.