

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

733/2A

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

Time: 3 Hour.

Tuesday 11/05/2010 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.

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1. Dissect specimen A and expose the digestive system.

- (a) Draw and label seven parts related to digestion.
- (b) What precautions must be taken while cutting the inner skin? Mention two.
- (c) Mention three digestion-related organs that differ between amphibians and mammals.

2. You are given solution X.

- (a) Perform biochemical food tests using appropriate reagents. Tabulate your results:

Food Tested	Procedure	Observation	Inference

- (b) State two biological roles for each identified food substance.
- (c) Why is heating required in Benedict's test?

3. Observe specimens R, S and T

- (a) (i) What kingdom does specimen S belong to? Give two features.
 - (ii) List three adaptations of specimen T to dry environments.
- (b) From which organism is R taken? State two roles of the scale.
- (c) What class does specimen T belong to? Give three features.