THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN SECONDARY EDUCATION EXAMINATION

733/2A **BIOLOGY 2A**

(ACTUAL PRACTICAL A)

Time: 3 Hour. **Tuesday, 10 May 2016 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 specimen **K** (a frog or toad) to expose its digestive system.

(a) Draw a diagram showing seven labelled parts of the digestive system.

(b) State two precautions you must take when opening the inner body skin of specimen K.

(c) Give three major differences between digestive systems of amphibians and insects.

2. You are given solution **X**.

(a) Using the provided reagents, conduct food tests and complete the table below:

Food Tested	Procedure	Observation	Inference

(b) Mention two roles of each food substance found in solution X in human nutrition.

(c) Why is heat important during Benedict's test?

3. Observe specimens **D**, **F**, and **G**.

(a) (i) Give two observable features that classify specimen D into its kingdom.

(ii) How is specimen D adapted to arid conditions? Give three ways.

(b) (i) From which organism was specimen G taken?

(ii) State two functions of specimen G.

(c) State three features that classify specimen F into its class.