UNNASE

UNNASE MOCK EXAMINATIONS

UGANDA ADVANCED CERTIFICATE OF EDUCATION

BIOLOGY
PRACTICAL
Paper 3
3 hours 15 minutes

Candidate's Name: ....

Signature: ....

	Random No.					Personal No.		

> **INSTRUCTIONS TO CANDIDATES**
> This paper consists of **three** questions.
> Answer **all** the questions.
> Write the answers in the spaces provided.
> No additional sheets of paper should be inserted in this booklet.
> You are **not** allowed to start working within the first **15 minutes**. You are advised to use this time to read through the paper and ensure that you have all the apparatus, chemicals and specimens you require.

For examiner's use only		
Questions	**Marks**	**Examiner's signature**
1		
2		
3		
TOTAL		

1. You are provided with specimen **N** which is freshly killed.
   a) Examine the specimen and by giving two reasons, based on appendages, state its habitat. (3 marks)

   b) i) Place the specimen with its ventral side uppermost and examine the head from the lateral side. Draw and label the structures for sensitivity. (6 marks)

   ii) Explain how each of the structures labelled above contribute to the survival of the specimen in its habitat. (4 marks)

c) Dissect the specimen to display the structures posterior to the diaphragm responsible for the passage of nutrients. Draw and label.

(10 marks)

d) Examine the following structures of the digestive system and describe their structure.

(4 marks)

i) Pancreas.

ii) Ileum.

iii) Colon.

....

e) Dissect the specimen further into the anterior part to display the blood vessels

i)   Returning blood to the heart from the left side of the thorax.

ii)   Supplying the right side of the head.

With the heart excluded, draw and label your dissection.

(16 marks)

2. You are provided with specimen **B** and solutions **X** and **Z**

a) Peel the specimen and obtain from it three cubes, each of the size of a bean seed. Obtain the same size of the from the liver, lung and thigh muscle of the specimen in the **question (1)**. In addition, obtain a few strands of hair.