

# **ST PETERS HIGH SCHOOL**

## **BUSABALA**

**UGANDA ADVANCED CERTIFICATE OF EDUCATION**

**BEGINNING OF TERM 1 EXAMS 2025**

**S.6 BIOLOGY 3**

**2 ½ HOURS**

NAME .....SIGN.....

### **INSTRUCTIONS TO CANDIDATES**

- This paper consists of two examination questions
- All questions are compulsory
- 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.

1. You are provided with specimen X which is freshly killed.  
(a) Classify the specimen according to its taxa (5 marks)

.....

.....

.....

.....

.....

.....

.....

(b) Observe the structural features on the head from the left hand side.  
Draw and label the features concerned with sensitivity and feeding.  
(7mrks)

(c) I) examine the head of the specimen, describe the shape of the head  
and its significance. ( 3mrks)

.....

.....

.....

.....

.....

.....  
.....

di) Open up the buccal cavity of the specimen to expose structures. Draw and label the interior of the buccal cavity when the tongue is pulled at the front. ( 11 marks)

(ii) Further dissect the specimen to expose the organs in the body cavity in-situ. Draw and label organs that are concerned with excretion and vessels that carry blood to the head region. (22 mrks)

2. Cut out the stomach and the pancreas from specimen T of question 1. Open and discard the stomach contents. Cut it into small pieces then crush into a fine paste using a motor and pestle, add 10cm<sup>3</sup> of water, stir and leave to stand and decant into a test tube to obtain an extract labeled S.

Repeat the same procedure for the pancreas and label the extract T. Label test tube 1 and 2 . In each test tube add 5cm<sup>3</sup> of extract Q add 2cm<sup>3</sup> of extract S to test tube 1 and 2cm<sup>3</sup> of extract T to test tube 2. Incubate the contents of the two

test tubes at 35-40 for 1Hr while agitating occasionally. After this time, carry out the following tests. Record your observations and conclusions in the table below.

<b>Test</b>	<b>Procedure</b>	<b>observation</b>	<b>conclusion</b>
Iodine	S+Q		
	T+ Q		
Reducing sugar	S+Q		

	T+Q		
Biuret	S+Q		
	T+Q		

Explain your results in the table (5 mrks)

.....

.....

.....

.....

.....

.....

**END**