Name:	Stream:
55/2	
BIOLOGY	
PRACTICAL	
PAPER 2	
Nov 2020	
2 hours	

ST. MARYS' KITENDE

Uganda Certificate of Education RESOURCEFUL MOCK EXAMINATION 2020 BIOLOGY PRACTICAL PAPER 2 2 HOURS

Instructions to candidates:

- Answer **all** questions.
- Drawings must be made in the spaces provided.
- *Use sharp pencils for your drawings.*

For Examiner's use only.

Question	Marks	Examiner's signature
1		
2		
3		
Total		

- 1. You are provided with specimens P and Q which are animal and plant tissues respectively. Cut out 5 cylinders from specimen Q each 1 cm long. Put one cylinder of Q in boiling water for 5 minutes, and crush one cylinder into a paste. Label 6 test tubes 1, 2, 3, 4, 5 and 6. Put 3cm³ of hydrogen peroxide in each of the test tubes 1, 2, 3, 4 and 5 and put 3cm³ of distilled water in test tube 6.
- a) Carry out the following tests on P and Q using the solutions provided and record your observations and deductions in the table below. (12 marks)

Tests	Observations	Deductions
i) To test tube 1,		
add a piece of P.		
ii) To test tube 2,		
add a cylinder of		
Q.		
iii) To test tube 3,		
add the crushed		
cylinder of Q.		
in To took to be 4		
iv) To test tube 4, add the boiled		
cylinder of Q.		

add 1cm³ of hydrochloric acid followed by one of the remaining cylinders of Q.	
To test tube 6, add one cylinder of Q.	
b) Explain the difference in results of test tube 1 and	nd 2. (4 marks)
c) Explain results in; i) Test tube 3	(3 marks)
ii) Test tube 4	
iii) Test tube 6	

d) What was being investigated about the active ingredient in Q?	(2 marks)
2. You are provided with specimens A, B and C obtained from the sanimal.	same
a) i) State three common functions of the specimens to the animal.	(3 marks)
	• • • • • • • • • • • • • • • • • • • •
ii) How are the specimens adapted to performing those functions st (i) above?	(3 marks)
	• • • • • • • • • • • • • • • • • • • •
b) Give two reasons for the identity of each of the specimens. i) Specimen B	(4 marks)
ii) Specimen C	•••••
	•••••
	• • • • • • • • • • • • • • • • • • • •

c) Describe two structural differences between specimens B and C. (2 marks)

Specimen B	Specimen C				

d)	Draw	and	label	the	lateral	view	of	specimen	A.
----	------	-----	-------	-----	---------	------	----	----------	----

(8 marks)

3. You are provided with specimen C, T and U which are plant organa) i) Identify specimens T and U.	ns. (2 marks)
T:	· ·
U:	
ii) Give reasons for your identity in (a) (i) above. Specimen T	(2 marks)
	• • • • • • • • • • • • • • • • • • • •
Specimen U	
	• • • • • • • • • • • • • • • • • • • •
b) Split specimen T longitudinally into two halves. Examine the struthe specimens and describe how each is adapted to its functions.	
Specimen T	
	•••••
	• • • • • • • • • • • • • • • • • • • •
Specimen U	
	•••••
	•••••
c) Using observable features only, give one advantage of specimen U one advantage of specimen T over U as organs of propagation. (4 mai) Advantage of T over U	
	•••••
	•••••
ii) Advantage of U over T	
	• • • • • • • • • • • • • • • • • • • •

d) Draw and label one half of specimen T with the embryo.

(7 marks)