553/3	Name :	
<b>BIOLOGY</b>	Signatura :	Darganal No.
<b>PRACTICAL</b>	Signature:	Personal No :
Paper 3	KW	GSA
05th Aug 2022	ž <b>(</b>	<b>&gt;</b> //
2 Hours	WPAL 9 MAKISO	GIANT SCHOOL

## KAMPALA WAKISO GIANT SCHOOLS' ASSOCIATION (KWGSA)

National Joint Mock Examination 2022

## **Uganda Certificate of Education**

**BIOLOGY PRACTICAL** 

Paper 3

2 Hours

## **INSTRUCTIONS TO CANDIDATES**

This paper consists of three questions

Answer all questions

Answers must be written in the spaces provided

For Examiners' Use Only			
QUESTION	SCORE		
1			
2			
3			
TOTAL			

1. You are provided with specimen T which is an animal tissue containing a living ingredient. You are required to determine the nature of the living ingredient in T using the following procedure.

Label test tubes 1, 2, 3 and 4 and treat them as follows;

Cut specimen T into four cubes each measuring 1cm x 1cm x 1cm and boil one cube for 3 minutes in distilled water.

- In test tube 1 add one whole cube of T
- In test tube 2 add one crushed cube of T
- In test tube 3 add one whole cube of T.
- In test tube 4 add one boiled cube of T.

Carry out the following tests using the test tubes above and record your observations and deductions in the table below.

Tests	Observation	Deduction
(i) To test tube 1, add 2cm <sup>3</sup>		
of hydrogen peroxide.		
(ii) To test tube 2, add 2cm <sup>3</sup>		
of hydrogen peroxide.		
(iii) To test tube 3, add 2cm <sup>3</sup>		
of distilled water.		
(iv) To test tube 4, add 2cm <sup>3</sup>		
of hydrogen peroxide.		

b)	Expl	(02 marks)	
	(i)	Test tube 1.	
	(ii)	Test tube 1.	

	(iii)	Test tube 1.						
	(iv)	Test tube 1.						
			• • • • • • • • • • • • • • • • • • • •			• • • • • • • • •		
				• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •		• • • • • • • • • •
(c)		ne above res	ults, state	any <b>thre</b> c	e condit	ions beir	ng invest	igated in
	•	ent above.						
	•••••		• • • • • • • • • • • • • • • • • • • •			•••••	• • • • • • • • • •	• • • • • • • • • • •
	•••••		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • •	••••••	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
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							• • • • • • • • • •	
(d)	Name tl	he nature of	f the living	r ingredi	in T	and sta	ta o ran	C
(u)	answer.	of the ingred		_				-
(u)	answer. Nature		ient					
(u)	answer. Nature of Reason.	of the ingred	ient					
	answer. Nature of Reason.	of the ingred	ient					
You	answer. Nature of Reason. are provide them and answer.	of the ingred	specimens are question	X, Y and s below.	d <b>Z</b> which	ch are ob	otained fi	rom anim
You	answer. Nature of Reason. are provide them and answer.	of the ingred	specimens are question	X, Y and s below.	d <b>Z</b> which	ch are ob	otained fi	rom anim
You Stud	answer. Nature of Reason. are provided them and With	ided with a snd answer th	specimens de question for your a	X, Y and s below.	d <b>Z</b> which	ch are ob	otained fi	rom anim
You Stud	answer. Nature of Reason. are provided them are With the Species	ided with a snd answer the	specimens de question for your a	X, Y and s below.	d <b>Z</b> which	ch are ob	otained fi	rom anim
You Stud	answer. Nature of Reason. are provided them and With the Species of the Species o	ided with a send answer the two reasons,	specimens de question for your a	X, Y and s below.	d <b>Z</b> which	ch are ob	otained fi	rom anim
You Stud	answer. Nature of Reason. are provided them are With the Species	ided with a send answer the two reasons,	specimens de question for your a	X, Y and s below.	d <b>Z</b> which	ch are ob	otained fi	rom anim
You Stud	answer. Nature of Reason. are provided them and With the Species of the Species o	ided with a send answer the two reasons,	specimens de question for your a	X, Y and s below.	d <b>Z</b> which	ch are ob	otained fi	rom anim
You Stud	answer. Nature of Reason. are provided them are With the Special X	ided with a send answer the two reasons,	specimens to your a	X, Y and s below.  nswer, id	d <b>Z</b> which	ch are ob	e specim	rom animatens. (02mai
You Stud (a)	answer. Nature of Reason.  are provided them are With them are Y  Specifical X  Y  Z  State w	ided with a send answer the two reasons,	specimens to your a	X, Y and s below.  Identiy	d <b>Z</b> which dentify examples and when	ch are obtach of the	e specim	rom animatens. (02mai

	(ii)	Y and Z Class	
		Reason:	
(2)	Ctata		•••••
(c)	(i)	<b>two</b> adaptations of each of the specimen to its functions Adaptation of <b>X</b>	(02 marks)
	(ii)	Adaptation of <b>Y</b>	(02 marks)
	<i>(</i> *)		
	(i)	Adaptation of <b>Z</b>	(02 marks)
(d)	State obtai	the function of each of the specimen to the animals wher	e they were (03 marks)
	(i)	<b>X</b> :	
	(i)	Y :	
	(i)	<b>Z</b> :	
			• • • • • • • • • • • • • • • • • • • •
(e)	Mak	e a well labeled drawing of specimen X and state your magi	nification. (05 marks)

- 3. You are provided with specimen K, L and M which are parts of different plant parts.
  - (a) By giving **two** reasons for your answer in each case, state the plant part where each specimen belong.

Specimen	Plant organ	Reason
K		
L		
M		

(b)	(i)	State the identity of each of the specimens.  L	(01 mark)
		M	
	(ii)	State <b>two</b> reasons for the identity of L.	(01 mark)
			•••••
(-)	Ctata	Arro Listorial importance of the annimon to the also	41
(c)		<b>two</b> biological importance of the specimens to the platications and state the reasons for your answer in each case	
	•••••		
	•••••		• • • • • • • • • • • •
	•••••	••••••	
(d)	State	any <b>three</b> adaptations of the specimen <b>K</b> to its functions	(03 marks)
	•••••		
	•••••		•••••
	•••••		•••••

(e)	Describe specimen M	(02 marks)
		•••••
		•••••
(f)	Draw and label specimen <b>K</b> . State your magnification.	(05 marks)