Name:	
Name:	Index No
School:	
	Signature:

553/2 BIOLOGY (PRACTICAL) PAPER 2 July/August 2 hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

BIOLOGY

(PRACTICAL)

Paper 2

2 hours

INSTRUCTIONS TO CANDIDATES:

- This paper consists of three questions.
- Answer all questions.
- All answers should be written in the spaces provided.
- Drawings should be made in the spaces provided.
- Use sharp pencils for your drawings.
- Coloured pencils or crayons should **not** be used.
- No additional sheets of writing paper are to be inserted in the booklet.
- Work on additional sheets will **not** be marked.

FOR EXAMINER'S USE ONLY.

Question Marks		Examiner's No. & Initials	
1		Alo	
2			
3		direction of the	
TOTAL		To the same of the same of	

Turn Over

1. You are provided with specimens A, B and solution Q. Peel specimens A and B.

Cut four cubes from specimen A. each measuring $1 \text{cm} \times 1 \text{cm} \times 1 \text{cm}$. Also cut one cube from specimen B of the same size. Carry out the procedure below.

- (i) Cut one of the cubes of A into four equal pieces.
- (ii) Cut the second and third cube, each into eight equal pieces.
- (iii) Leave the fourth cube intact.
- (iv) Cut the cube of specimen B also into eight equal pieces.
- (v) Label the boiling tube as A_1 and four test tubes as A_2 , A_3 , A_4 and A_5
- (vi) Boil the eight pieces cut from the third cube of A in 5cm³ of water for 5 minutes. (keep the pieces of each cube separate)
- (vii) Measure and add 5 cm³ of solution Q to the boiling tube and to each of the test tubes A₂ to A₅.
- (a) To each test tube and boiling tube, add the cut cubes as indicated in table 1 below.

Record your observations and deductions

(10 marks)

TABLE

TABLE 1			
Test tube/ Boiling tube	Cantanta	Observations	Deductions
A_1	Q + intact cube of A		
A_2	Q + four pieces of A	The same of the state	
A_3	Q + eight fresh pieces of A	tad on Lin, appropriate to the stage of the	le seri Otro de la 17
A_4	Q + eight boiled pieces of A		ne seafD
A_5	Q + eight Pieces of B		Lator

(b)	Exp	lain the difference in your results in test tubes;	
	(i)	A_1 and A_2	(02 marks)
	(ii)	A_3 and A_4	(02 marks)
	(iii)	A_3 and A_5	(02 marks)
		Taramina de de la composição de la compo	50000
(c)	State v	what was being investigated in this experiment.	(03 marks)
-) S	State the	e role of specimen A and B in the experiment.	(01 mark)
		ed with specimens K and L which are animal structures.	es.
	entity;		(01mark)
	asons;		(02 marks)
		© WAKISSHA Joint Mock Examinations 2023	Turn Ov

(b)	Suggest the part of the body of the animal from	which each sp	ecimen was
- TVI	ouggest the part of the body of the animal from	Willett Car	(04 marks)
	obtained. Give a reason in each case.		(0.1111110)

Specimen	Part of the body	Reason
K		
L		

(c) Describe the structure of specimen L.	
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(03 marks)

(d) State **three** structural differences between specimens K and L. (04 marks)

	Specimen K	Specimen L
	home but a little of the littl	
-	vestigated in this expeliment.	ni ganadena data va kung in

(e) Draw and label the anterior view of specimen L.

(06 marks)

a)	Observe the specimens and give the identity of each using obse characteristics features.	
	Identity of R;	(01 mark)
	Observable features;	(02 marks)
	Identity of S;	(01 mark)
	Observable features;	(02 marks)
b)	Basing on your observations, state the class to which specime Give two reasons to support your answer. Class; Reasons;	n S belongs (01mark) (02marks)
	Examine specimen S and describe its leaves.	(03 marks)
c) -	Examine specimen's and describe its leaves.	
-		
d) Ex	plain how specimen R is suited for survival in its habitat	. (02marks)
	ans	
-		Turn C

