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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
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TOTAL		1 (0 2010) 9

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

Cut four cubes from specimen A. each measuring 1cm × 1cm × 1cm.

Also cut one cube from specimen B of the same size.

Carry out the procedure below.

- Cut one of the cubes of A into four equal pieces. (i)
- Cut the second and third cube, each into eight equal pieces. (ii)
- Leave the fourth cube intact. (iii)
- Cut the cube of specimen B also into eight equal pieces. (iv)
- Label the boiling tube as A<sub>1</sub> and four test tubes as A<sub>2</sub>, A<sub>3</sub>, A<sub>4</sub> and A<sub>5</sub> (v)
- Boil the eight pieces cut from the third cube of A in 5cm3 of water for (vi) 5 minutes. (keep the pieces of each cube separate)
- Measure and add 5 cm<sup>3</sup> of solution Q to the boiling tube and to each of the (vii) test tubes A2 to A5.
- To each test tube and boiling tube, add the cut cubes as indicated in table 1 (a) below.

Record your observations and deductions

(10 marks)

TABLE 1 **Deductions** Test tube/ Observations Contents **Boiling tube** Q + intact  $A_1$ cube of A Q + four  $A_2$ pieces of A Q + eight fresh pieces  $A_3$ of A Q + eight boiled pieces  $A_4$ of A Q + eight A<sub>5</sub> Pieces of B



(i)	$A_1$ and $A_2$	(02 marks)
		Markey (
(ii)	A <sub>3</sub> and A <sub>4</sub>	(02 marks)
(iii)	A <sub>3</sub> and A <sub>5</sub>	(02 marks)
a on i		198
State	what was being investigated in this experiment.	(03 marks)
		75 / Sayles
State	e the role of specimen A and B in the experiment.	(01 mark)
are pr	ovided with specimens K and L which are animal structures	
100		
Iden	tity;	_ (01mark)
Reas	sons;	(02 marks)
-	© WAKISSHA Joint Mock Examinations 2023	Turn Over
	(iii)  State  State  are pro With Iden	(iii) A <sub>3</sub> and A <sub>4</sub> (iii) A <sub>3</sub> and A <sub>5</sub> State what was being investigated in this experiment.  State the role of specimen A and B in the experiment.  are provided with specimens K and L which are animal structures With reasons, state the identity of the animal structures. Identity;  Reasons;

(b) Explain the difference in your results in test tubes;

100	substitute of the animal from which ex	ach specimen was
(b)	Suggest the part of the body of the animal from which ea	(04 marks)
	obtained. Give a reason in each case.	

Specimen	Part of the body	Reason
К		
L		

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

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

Specimen K	Specimen L		
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(e)	Draw and label the anterior view of specimen L.	(06 marks)
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Identity of R;	(01 mark)
Observable features;	(02 marks)
Identity of S;	(01 mark)
Observable features;	(02 marks)
Basing on your observations, state the class to which speciments Give two reasons to support your answer.	n S belongs.
Class;	
Reasons;	(02marks
Examine specimen S and describe its leaves.	(03 marks
	4
Explain how specimen R is suited for survival in its habitat.	(02marks
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You are provided with specimens R and S.

3.

e) Cut specimen S transversally into two halves. Draw and label one half.
(06 marks)

**END**