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		11/6/10
2		
3		119849
TOTAL		

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Turn Over



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

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.

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 5cm<sup>3</sup> 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 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)

Test tube/ Boiling tube	Contents	Observations	Deductions
$A_1$	Q + intact cube of A		
$A_2$	Q + four pieces of A		
A <sub>3</sub>	Q + eight fresh pieces of A		
$A_4$	Q + eight boiled pieces of A		
A <sub>5</sub>	Q + eight Pieces of B		

(b) Ex (i	explain the difference in your results in test tubes; $A_1 \text{ and } A_2$	(02 marks)
(1	) Al and A2	
(	(ii) $A_3$ and $A_4$	(02 marks)
	(iii) A <sub>3</sub> and A <sub>5</sub>	(02 marks)
(c)	State what was being investigated in this experiment.	(03 marks)
(d)	State the role of specimen A and B in the experiment.	(01 mark)
You	are provided with specimens K and L which are animal struc	etures.
(a)	With reasons, state the identity of the animal structures.	
	Identity;Reasons;	(01 mark) (02 marks)
	© WAKISSHA Joint Mock Examinations 2023	Turn Ov

(b)	Suggest the part of the body of the animal from w	hich each specimen was
	obtained. Give a reason in each case.	(04 marks)

Part of the body	Paggar
The body	Reason
	Part of the body

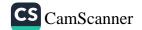
(c)	Describe the structure of specimen L.	(03 marks)

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

Specimen K	Specimen L

(e) Draw and label the anterior view of specimen L. (06 marks)

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Observe the specimens and give the identity of each us characteristics features.	ing observable
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 Give <b>two</b> reasons to support your answer. Class;	specimen S belongs(01mark
Reasons;	(02marks)
Examine specimen S and describe its leaves.	(03 marks
Examine specimen S and describe its leaves.	(03 marks
Examine specimen S and describe its leaves.	(03 marks
d) Examine specimen S and describe its leaves.  Examine specimen S and describe its leaves.	

