Name:	Centre/ Index No
School	Signature:

553/3 BIOLOGY Practical PAPER 3 July/August 2023 2hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

BIOLOGY

(Practical)

Paper 3

2 hours

INSTRUCTIONS TO CANDIDATES:

- This paper consists of three questions.
- Answer all questions.
- 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		
2		
3		
TOTAL		

- You are provided with solutions D which contains food nutrients. 1.
 - Carry out the tests specified in the table below. Record your tests, observations and deductions. (16 marks)

	Test	Observations	Deductions
(i) Iodir	ne test		Deductions
			j8 .
(ii) Ben	edicts' test		
(iii) Nor	n-reducing sugar test.		
(iv) Din	ret's test		
(IV) Diu	iet s test		
b) (i) Identify the food nu	trients in solution D .	(01 marks
(ii	i) Name two natural se	ources of each of the food nutrien	ts in solution D. (02 mark
c) Si	tate one effect of under colution D .	consumption by man of each of th	e food nutrients in
You are	provided with specimens Observe the specimens and	E and F which are plant organs.	to both specimens.

i) Specimen E	d to its mode of pollination. (03 marks)
ii) Specimen F	(03 marks)
Examine the structures of each of the differences between the two specimer	specimens E and F. State four structural (04 marks)
Specimen E	Specimen F
22	
8	
Explain one ecological advantage of	specimen F over specimen E. (01 mark

Specimen U specimen U adapted to its mo	s between specimens U and V. Specimen V ode of life as a parasite.	(03 marks)
Specimen U specimen U adapted to its mo		
Specimen U specimen U adapted to its mo		
	ode of life as a parasite.	(03 marks
	ode of life as a parasite.	(03 marks
tructures used for locomotion		
	and feeding, construct a dichotomo	ous key to
specimens U, V, W and X.		(03 marks)
ne survival advantage of speci	imen X over W.	(01 mark)
		ne survival advantage of specimen X over W. e an inner wing from specimen V and draw it, but do not label.

WAKISSHA MOCK 553/3

Each candidate should be provided with the following;

- 10cm³ of Solution D. (Solution D is prepared by mixing of one egg albumen in 1 litre of 1% starch solution)
- Common reagents for food tests.
- Cassia flower labelled E.
- Morning glory / sweet potato flower labelled F.
- Freshly killed mature cockroach labelled V.
- Soldier termite labelled W.
- Housefly labelled X.
- Tick labelled U.

Access to:

- · Source of heat.
- 5 test tubes.

END