NAME:		
SIGNATURE:	Centre No.	Personal No.

553/2 BIOLOGY PRACTICAL Paper 2 JULY. 2023 2hours



TORORO ARCHDIOCESE EXAMINATIONS BOARD Uganda Certificate of Education

MOCK EXAMINATIONS – AUGUST 2023
BIOLOGY PRACTICAL

Paper 2 2 Hours

INSTRUCTIONS TO CANDIDATES

This paper consists of three questions.

> Answer all the questions.

(.)

- > Drawings should be made in the spaces provided.
- > Use sharp pencils for your drawings.
- > Coloured pencils or crayons should not be used
- > Work on additional sheets will not be marked.
- > Untidy work will lead to loss of marks.

	For examiner's only
Question	Marks
1	
2	
3	
TOTAL	

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1. You are provided with specimens C and D which are maize seeds that were soaked for different hours.

Prepare an extract of solution C by crushing 5seeds of specimen C in a mortar using a pestle, mix it with 10cm³ of distilled water and stir thoroughly. Decant the mixture into a test tube to obtain solution C. wash the mortar and pestle with clean water and Prepare an extract of solution D using 5 seeds of specimen D following the same procedure.

(a) Carry out the following tests and record your observations and deductions in the table below.

TEST			(15marks)	
Iodine	SOLUTION	OBSERVATION	DEDUCTION]
<u>rourne</u>	С			
				5
)
<u>Iodine</u>	D			
<u>rounie</u>	D			
		7.		
Protein	C			
TIOCCIII				•
			-	
			,	
Protein	D			-
2 1 5 5 5 11				
Benedict's	C			-
<u>Benedict s</u>				

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Benedict's	D	

(b) From the results in the table above, suggest with reasons which of the specimens were soaked for

(i) Fewer hours Solution	(¹/ ₂ mark)
Reason	(/mark)
40.5.	(02marks)
(ii) More hours Solution	
Reason	
e - 1 Tu e	

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(a) State the mode of pollination specimen H undergoes with two reasons (03 marks)	**
Mode	
Reasons	
(b)Describe the observable features of the corolla and calyx of H and G (i).Corolla of H (03 marks)	
(ii).Calyx of H (02 marks)	
(iii).Corolla of G (02 marks)	
	•••••
	•••••
•••••••••••••••••••••••••••••••••••••••	
	•••••
(iv).Calyx of G (01 mark)	
	•••••
•••••••••••••••••••••••••••••••••••••••	•••••

(c).Cut specimen H longitudinal ONLY the essential parts of the	lly into two halves, then draw one	half and label
parts of the	flower	(06 marks
100-10;		
General I		
er exite to accept to a source to the		(03 mark
Specimen H	differences between G and H Specimen G	
er exite to market a contract to the	Specimen G	
	Specimen G	
Specimen H	Specimen G	
Specimen H	Specimen G	

3. You are provided with same animal. Giving a	n specimens V and W which w reason in each case, identify the	rere obtained from the
(i).SpecimenV.	reason in each case, identify the	(01mark)
		(Olmark)
Reason.		
		(01mark)
(ii)SpecimenW.		(01mark)
Reason.		(01mark)
		(отшагк)
(b). (i) State three structu	ıral similarities between spe	cimen V and W (03marks)

		•••••
(ii).State three structural di	fferences between specimen V a	and W.
		(03marks)
Specimen V	Specimen W	
	Specimen //	
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(c).	Using observable structural features, explain how the crown W enables it carry out its functions.	of specimen (03marks)
••••••		
••••••		
••••••		
•••••		
••••••		
•••••		
(d).	Draw and label the top surface of specimen W in the space proyour magnification.	ovided. State (07marks)

END

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