

Name:.....Centre/Index no: .....

Signature: .....

553/2  
BIOLOGY  
PRACTICAL  
Paper 2  
August 2023  
2 hours



**JINJA JOINT EXAMINATIONS BOARD**

*Uganda Certificate of Education*

**MOCK EXAMINATION –AUGUST 2023**

**BIOLOGY PRACTICAL**

**Paper 2**

2 hours

**INSTRUCTIONS TO CANDIDATES:**

*Answer ALL questions in the spaces provided.*

*Extra credit shall be given to clear drawings made in pencil*

*No additional sheets of writing paper are to be inserted in the booklet.*

*For Examiner's Use Only*

QUESTION	MARKS
1	
2	
3	
TOTAL	

1. You are provided with solution R, S, T and U which are food solutions.  
Carry out Benedicts test on solutions R, T and U and record your  
observations and deductions in table 1. (08 marks)

TESTS	OBSERVATION	DEDUCTION
(i) To 1cm <sup>3</sup> of solution R in a test – tube add 1cm <sup>3</sup> of Benedict's solution and boil		
(ii) To 1cm <sup>3</sup> of solution T in a test – tube add 1cm <sup>3</sup> of Benedicts solution and boil.		
(iii) To 1cm <sup>3</sup> of solution U add 1cm <sup>3</sup> of Benedicts solution and boil.		

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(b) Carry out tests in table 2 and record your results in the table 2 below. (08 marks)

TESTS	NUMBER OF DROPS USED	DEDUCTION
(i) To 1cm <sup>3</sup> of DCPIP in a test – tube R drop by drop until the solution is just decolourised count the number of drops.		
(ii) To 1cm <sup>3</sup> of DCPIP add solution S and count the number of drops until the solution is just decolourised.		
(iii) To 1cm <sup>3</sup> of solution in a test – tube add solution T drop by drop as you count until the solution just decolourised.		
(iv) To 1cm <sup>3</sup> of DCPIP in a test – tube add		



solution U drop by drop as you count until the solution just decolourised.		
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(c) From your results in table 2 state what was being investigated. (01 marks)

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(d) Basing from your findings in table 1 and table 2, state two differences between solution R and U. (02 marks)

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2. You are provided with specimens A and B which are the same parts of different plants.

(a) Which part of the plant are the specimens? Give reasons for your answer.

(i) part of the plant. (03 marks)

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(ii) Reasons.

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(b) Describe the following parts of specimen A.

i. Calyx

(03 marks)

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ii. Corolla

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(c) Give four structural differences between specimen A and B.

(04 marks)

SPECIMEN A	SPECIMEN B
(i)	
(ii)	
(iii)	
(iv)	

(d) Giving reasons, state the type of pollination which occurs in the specimens.

(03 marks)

Type of pollination

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Reasons

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- (e) Using a sharp blade, cut specimen B longitudinally. Draw and label a longitudinal section of specimen A. State your magnification. (07 marks)

3. You are provided with specimens X, Y and Z which were obtained from the same type of mammal.

- a) State the part of the body from which each specimen was obtained. (03 marks)

SPECIMEN	PART OF THE BODY
X	
Y	
Z	



b) Describe the main features of specimens X, Y and Z. (09 marks)

(i) Specimen X

(ii) Specimen Y

(iv) Specimen Z

c) Outline four differences between specimens X and Y. (04 marks)

SPECIMEN X	SPECIMEN Y

d) In the space provided draw and label the anterior view of specimen Y.

State your magnification.

(05 marks)