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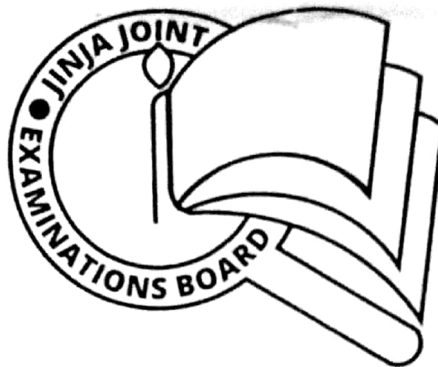
BIOLOGY

PRACTICAL

INSTRUCTIONS

Paper 2

JULY / AUGUST, 2023



JINJA JOINT EXAMINATIONS BOARD

Uganda Certificate of Education

MOCK EXAMINATIONS –JULY/AUGUST, 2023

BIOLOGY

PRACTICAL

Paper 2

INSTRUCTIONS

CONFIDENTIAL:

GREAT CARE SHOULD BE TAKEN THAT THE INFORMATION GIVEN BELOW DOES NOT REACH THE CANDIDATES EITHER DIRECTLY OR INDIRECTLY.

Each candidate should be provided with:

- ✓ 20cm³ of extract of R, 20cm³ of extract of S, 100cm³ of extract of T and 100cm³ of extract of U
- ✓ S – is a pure extract of a ripe Orange
- ✓ R – is a pure extract of a ripe lemon
- ✓ T – made by diluting 500cm³ of extract from the top of a ripe pineapple to make a liter of solution.
- ✓ U – made by diluting 500cm³ of extract from the base of a pineapple to make a liter of solution.
- ✓ A – A morning glory glower
- ✓ B – A Hibiscus flower
- ✓ X – Lumbar vertebra bone
- ✓ Y – Thoracic vertebra bone
- ✓ Z – cervical vertebra bone
- ✓ 5 test – tubes
- ✓ Heat source
- ✓ A blade / knife
- ✓ Dropper

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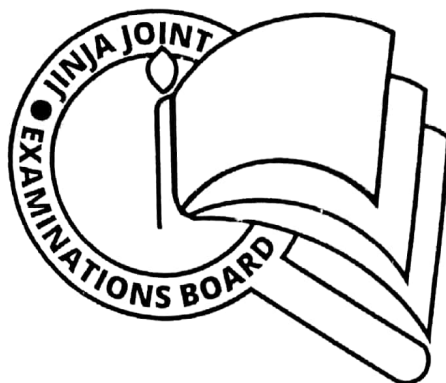
BIOLOGY

PRACTICAL

INSTRUCTIONS

Paper 3

JULY/AUGUST, 2023



JINJA JOINT EXAMINATIONS BOARD

Uganda Certificate of Education

MOCK EXAMINATIONS –JULY/AUGUST, 2023

BIOLOGY

PRACTICAL

Paper 3

INSTRUCTIONS

CONFIDENTIAL:

GREAT CARE SHOULD BE TAKEN THAT THE INFORMATION GIVEN BELOW DOES NOT REACH THE CANDIDATES EITHER DIRECTLY OR INDIRECTLY.

Each candidate should be provided with:

- E – one fresh Irish tuber
- F – one fresh carrot tuber
- 20cm³ of hydrogen peroxide
- Distilled water (20cm³)
- O – A leaf of wandering Jew
- P – A bryophyllum leaf with bubals
- Q – A carnally leaf
- R – A relatively small maize leaf.
- C – Soldier termite
- A – ^oworker termite
- **Hand lens**
- Labelling sticker
- Source of heat
- A knife / blade
- 5 test-tubes and 1 boiling tube

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	

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Turn Over

1. You are provided with solution R, S, T and U which are food solutions. Carry out Benedict's test on solutions R, T and U and record your observations and deductions in table 1. (08 marks)

TESTS	OBSERVATION	DEDUCTION
(i) To 1cm ³ of solution R in a test – tube add 1cm ³ of Benedict's solution and boil		
(ii) To 1cm ³ of solution T in a test – tube add 1cm ³ of Benedict's solution and boil.		
(iii) To 1cm ³ of solution U add 1cm ³ of Benedict's 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 ³ of DCPIP in a test – tube R drop by drop until the solution is just decolourised count the number of drops.		
(ii) To 1cm ³ of DCPIP add solution S and count the number of drops until the solution is just decolourised. (iii) To 1cm ³ of solution in a test – tube add solution T drop by drop as you count until the solution just decolourised.		
(iv) To 1cm ³ 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)

1. 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

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(ii) Specimen Y

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(iv) Specimen Z

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- 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)