

MARANDA HIGH SCHOOL

Kenya Certificate of Secondary Education PRE-MOCK EXAMINATIONS 2022

231/3

BIOLOGY

Paper 3

JUNE

2022

13/4Hours

Name:	•••••••••••••••••••••••••••••••••••••••	Adm	No:	
Class:	Candidate's Signature:	•••••	Date:	/6/2022.

INSTRUCTIONS TO CANDIDATES:

- Write your name and admission number in the spaces provided.
- Sign and write date of examination in the spaces provided above
- Answer all the questions in this paper.
- You are required to spend the first 15 minutes of the 1¾ hours allowed for this paper reading the whole paper carefully.

For Examiner's Use Only:

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1	14	
2	12	
3	14	
TOTAL	40	



1. You are provided with olive oil, liquids labeled L_1 and L_2 , and an Irish potato. Label test tubes A and B. Place 2cm^3 of water into each test tube. Add 8 drops of olive oil into each test tube. To test tube A, add 8 drops of liquid L. Shake both test tubes. Allow to stand for 2 minutes.

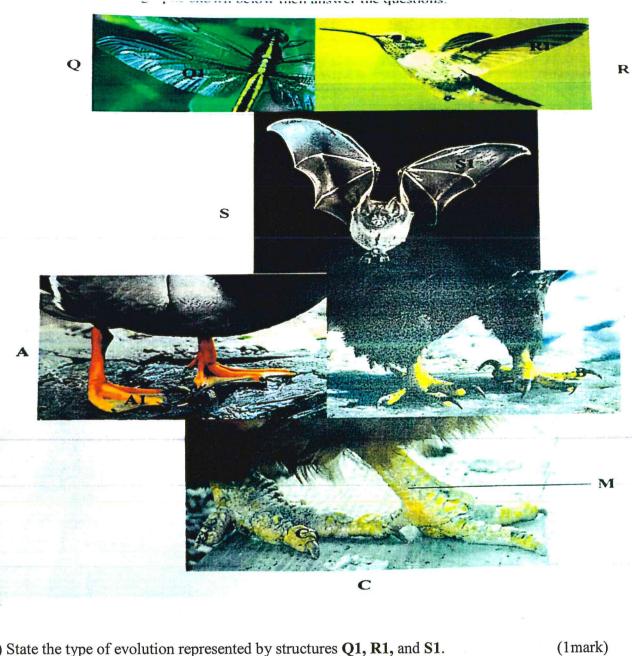
(a)	
(i) Record your observations made in the test tubes A and test tube B Test Tube A	(1mark)
Test Tube B	(1mark)
(ii) Name the process that has taken place in test tube A	(1 mark)
weganingspapers the second	200 SE 6 2
(iii) State the significance of the process named in (a) above	(1 mark)
(iv) Name the digestive juice in humans that has the same effect on oil as liquid L_1	(1 mark)
(v) Name the region of the alimentary canal into which the juice is secrete	(1 mark)
(b)	
(i) Label two test tubes C and D place 2cm ³ of liquid L2 into each test tube. Add a dresolution into each test tube.	op of iodine
Record your observations.	(1 mark)
(ii) Suggest the identity of L ₂	(1 mark)



(iii) Cut a cube whose sides are 1cm ³ from the Place the paste into a test tube labeled C. add least 30 minutes.	e Irish potato. Crush the cube to obtain a paste. 2cm3 of amylase solution. Leave the set up for at
(i) Record your observations	(1mark)
C	
(iv) Account for the result in (b)(iii) above	(2marks)
(iv) Cut another cube whose sides are 1cm frocrushed paste into a test tube. Carry out food and results.	om the Irish potato. Crush the cube. Place the test with reagents provided. Record your procedure
Procedure:	(2marks)
Results:	(1mark)



2. Study the photographs shown below then answer the questions that follow.



a) State the type of evolution represented by structures Q1, R1, and S1.

b) Explain the type of evolution identified in (a) above

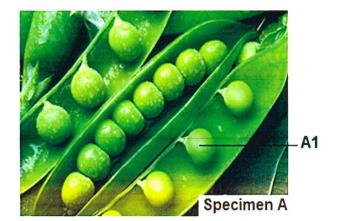
(1mark)

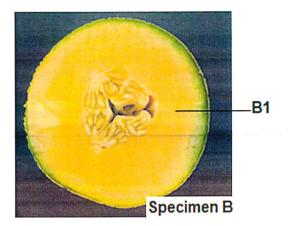
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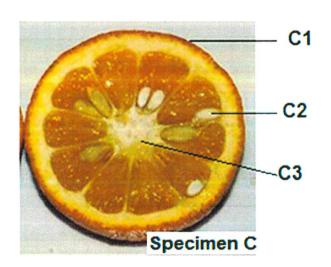
c) Give the evolution term used to describe structures	
(i) Q1, R1 and S1:	(1mark)
(ii) A1, B1, and C1:	(1 mark)
(d) (i) What type of evolution is illustrated by the limbs (A1, B1 and C1)	(1mark)
(i) Name the class for each Q, R and S.	(3marks)
Q:	,
R:	or the state of the state of
S:	
(ii) Give one observable reasons for your answer for class S	(1mark)
(iii) Suggest the diets of animals B and R	(2marks)
B:	
R:	
(iv) How is beak of animal B adapted to its function	(1mark)

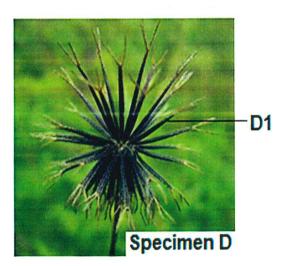


3. Study the specimens provided then answer the questions below.









(a)Name the parts labeled A1, B1, C1 and C3	(4marks)
A1	
B1	
C1	
C2	



(b) Fill in	the table below with appro-	priate agent of dispersal and give a reason.	(2mark)
specimen	Agent of Dispersal	Reason	
A			
(c) How d	oes part C2 adapt Specime	n C to its agent of dispersal?	(1mark)
(d) Explain	n why Specimen A is impo	ortant in a child's diet.	(1mark)
			al service constants on
(e) The dia	agram below represents two	o mature parasitic worms, labelled A and B, of	the species
Schistoson	na mansoni that causes bill	narzia	
	Da Co		A
		B	
(i) With a r	reason, identify the male ar	nd the female worm in the diagram above.	(3marks)
Male			(ii
Female			**************************************



(ii) Name two hosts, primary and intermediate, for these parasitic worms.	(2marks)
Primary host	
Intermediate host	
(iii) State one way of controlling the spread of bilharzia	(1marks