



**MARANDA HIGH SCHOOL**  
**Kenya Certificate of Secondary Education**  
**MOCK EXAMINATIONS 2021**

**231/3**

**BIOLOGY**

**Paper 3**

**DECEMBER 2021 – TIME: 1Hour 45 Minutes**

Name: .....Adm No: .....

Class: .....Candidate's Signature: ..... Date: ...../12/2021.

**INSTRUCTIONS TO CANDIDATES**

- Answer **all** the questions.
- Answers **must** be written in the spaces provided in the question paper.
- Additional pages **must not** be inserted.
- Candidates may be penalized for recording irrelevant information and for incorrect spellings.

**FOR EXAMINER'S USE ONLY**

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	11	
2	19	
3	10	
<b>TOTAL SCORE</b>	<b>40</b>	

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Biology Paper 3

1. Study the photographs below and answer the questions that follow.



**SPECIMEN Q**

**SPECIMEN R**

a) The two specimen belong to the same Phylum. Giving **two** reasons, name the phylum of the specimen. (3 marks)

i) Phylum.....

ii) Reasons



.....

.....

.....

.....

b i) Name the **class** to which the specimen belong. (1mark)

.....

ii) State **three** characteristic features common to both specimens that support your answer. (3 marks)

.....

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c) Based on observation from the photos, state how the mouthparts of specimen **Q** and **R** are adapted to their functions. (2 marks)

Specimen **Q**



.....

.....

Specimen **R**

.....

.....

d) Citing visible features, state **two** modes of locomotion for specimen **Q**. (2 marks)

.....  
.....

2 You are provided with suspension labelled **M**.

a) Using the reagents provided, test for the food substance in the suspension.

In the table below record the food tested, procedure, observation and conclusion.

(16 marks)

Food substance	Procedure	Observation	Conclusion

b) Name **two** enzymes that may be required to digest the food substances in the suspension M in the alimentary canal in human beings. (2 marks)

.....

.....

c) State the role of hydrochloric acid in the experiment. (1 mark)

.....

.....

3 Study the photographs below and answer the questions that follow.



**O**



**K**

a i) Suggest the agent of pollination for specimen **Q**. ( 1 mark)

.....

ii) Give **two** adaptations of the flower that support your answer in a (i) above. (2 marks)

.....  
.....  
.....

b) State **five** differences between specimen Q and K. (5 marks)

Specimen Q	Specimen K

c) On the photograph of specimen K, label the following:- ( 2 marks)

i) **Stigma**

ii) **Anther**

