



MARANDA HIGH SCHOOL

Kenya Certificate of Secondary Education

THE MOCK EXAMINATIONS, 2026

231/3

BIOLOGY

PAPER 3

May 2026

Time: 1³/₄ Hours

Name: **Admission No:**

Stream: **Signature:** **Monday, 1st June, 2026; 2:00-4.30pm**

Instructions

- (a) Write your name and admission number in the spaces provided above
- (b) This paper consists of **Three** Questions
- (c) All answers should be written in the spaces provided on the question paper.

FOR EXAMINERS'USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATES'S SCORE
1	12	
2	12	
3	16	
TOTAL	40	

1. You are provided with the following, liquid **Q**, distilled water, substance **R** and filter paper.

(a) Using the materials provided, test for the food substance in liquid Q. (3marks)

[illegible]

(b) (i) Place 2ml of liquid **Q** in a test-tube. Add 2ml of water, shake and leave to settle. Record your observation. (1 mark)

(ii) Add two drops of substance **R** to the test-tube in (b) above, shake and leave to settle. Record your observation. (1 mark)

(iii) Identify a chemical substance in human beings that plays a similar role as substance R

(iv) Identify the process illustrated in (c) above and give its significance. (2 marks)

Process

Significance

(c) (i) Name the part of alimentary canal where the above process occurs. (1 mark)

(ii) Give **three** roles played by food substance present in liquid **Q** in human beings. (3 marks)

2. You are provided with a specimen labeled **H**. With the aid of a hand lens, examine the external features of the specimen.

(a) (i) What part of a plant is specimen **H**? (1 mark)

(ii) Give one reasons for your answer in (a)(i) above (1 mark)

(b) Open up specimen **H** longitudinally. Use a hand lens to observe the internal structures of specimen **H**.

(i) Draw and label the internal cut surface and associated structures of specimen **H**. (5 marks)

(ii) How would you determine the magnification of the drawing made in (b)(i) above. (1 mark)

(iii) State the mode of dispersal for seeds of specimen **H** (1 mark)

(iv) Explain how seed of specimen **H** are dispersed through the mode stated above in (b)(iii) above. (3 marks)

3.(a) The photographs below are of bones obtained from a mammal



(i) Name the region of the body from which bones **K1** and **K2** were obtained (1 mark)

(ii) With a reason in each case, identify the bones **K1** and **K2** (4 marks)

K1.....

Reason:.....

K2.....

Reason:.....

(iii) Identify the view of bone **K2** (1 mark)

(iv) Give **two** functions of blood cells formed by the bones **K1** and **K2** (2 marks)

You have been provided with the following:

Specimen labeled J that was grown in the dark for one week.

Asclapel

Motar and pestle

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Use them to answer the questions that follow

i) Name the type germination exhibited by J. (1 mark)

(ii) Cut out the lower part called the root. Crush the remaining portion of **J** using the provided mortar and pestle. Dissolve it to make a solution. Transfer the solution into a clean test tube and label as **solution J**.

Use the reagent provided to test for the food substance present in solution J. (3 marks)

[illegible]

Account for the observation made above (3 marks)

Name the phenomenon that took place in J (1 mark)

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