

Examination Number

Candidate Full Name

+ 0806376

+ ngwebielochikama@gmail.com

Please read the following instructions carefully

2025 BIOLOGY PAPER 2 Series 1

This section contains 5 Questions and the time allowed is 100 minutes. Note that the section would be available on Thursday, 30

**Answer three questions in all. Two questions from questions 1 to 4 while question 5 is con**

Proceed to Test Room

WAECS WAEC? Log Out

MasterWAEC.com

Question 1:

- (a) (i) Explain the term *homeostasis*. [3 m]  
 (ii) Name **three** organs in humans that are involved in homeostasis. [3 m]

- (b) Complete the table below by naming **three** types of neurones and stating **one** function of **each** of the neurones.

<i>Types of neurone</i>	<b>One function of neurone</b>

[6 m]

- (c) Make a drawing, 8 cm to 10 cm long of a typical neurone and label fully. [8 m]

Question 2:

- (a) State **two** differences between *primary* and *secondary* succession.

<i>Primary succession</i>	<i>Secondary succession</i>

[2 m]

- (b) Place the following sites of succession under their appropriate headings.

Rocky surface, Newly formed sand dunes, Volcanic eruption sites.



## Question 4:

A homozygous dominant red flowered plant (**R**) was crossed with a homozygous recessive white flowered plant (**r**). All the offspring of the  $F_1$  generation were pink.

- (a) With the aid of a genetic diagram, show the genetic cross. [8 marks]
- (b) What type of inheritance is illustrated in the cross? [1 mark]
- (c) Explain briefly the mechanism involved in the type of inheritance named in 4(b). [3 marks]
- (d) A test cross was carried out with **one** of the  $F_1$  offspring. Give the:
- (i) genotype of the parent; [2 marks]
  - (ii) phenotypes of the result of the cross; [2 marks]
  - (iii) genotypes of the result of the cross; [2 marks]
  - (iv) genotypic ratio of the offspring obtained. [2 marks]

## Question 5:

- (a) Explain briefly the following reproductive methods:
- (i) oviparity; [6 marks]
  - (ii) viviparity. [3 marks]
- (b) Name **three** Classes of animals that are oviparous. [3 marks]
- (c) Complete the table below.

Courtship behaviour	One example of animal
Release of chemical substances	
	Firefly
Dancing	
	Toad

[4 marks]

- (d) State **one** role **each** of the following bacteria in the nitrogen cycle.

State one role each of the following bacteria in the nitrogen cycle.

Bacteria	Role
<i>Rhizobium</i>	
<i>Azotobacter</i>	
<i>Nitrosomonas</i>	
<i>Nitrobacter</i>	
<i>Pseudomonas</i>	

[5 marks]

(e) Complete the table below.

Organism	Feeding habit
Mosquito larva	
Butterfly	
Adult mosquito	
<i>Nilaparvata</i>	
Maize weevil	

[5 marks]

(f) In an epigeal germination experiment, the following parts were observed on the seedling: Cotyledon, Epicotyl, Hypocotyl, Radicle. Place the parts under the appropriate heading on the table.

Below the soil	Above the soil

[4 marks]

(g) Name the sense organ that is:

- (i) used for smelling;
- (ii) sensitive to touch.

--	--

(b) Place the following sites of succession under their appropriate headings.

Rocky surface, Newly formed sand dunes, Volcanic eruption sites, Abandoned farmland, Shallow pond, Forest after a fire.



Master WAEC.COM

- (c) (i) List four factors that increase human population in an area.
- (ii) State four effects of overcrowding.
- (d) State four adaptations of plants to overcrowding.

**Question 3:**

- (a) Explain briefly the following terms:
  - (i) poaching.
  - (ii) endangered species.

[4 marks]

The table below contains the data of the total number of animals in a game reserve. Use it to answer questions 3(b) to 3(d).

<i>Animal</i>	<i>Number of animals</i>
Deer	70
Zebra	40
Elephant	10