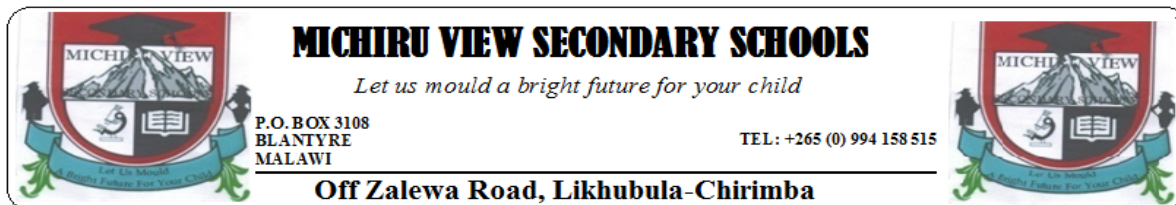


CANDIDATE'S NAME: \_\_\_\_\_ FORM \_\_\_\_\_



## MALAWI SCHOOL CERTIFICATE OF EDUCATION

### BIOLOGY

### PAPER II

### MOCK II Time: 1hr:30 min

(100 marks)

#### Instructions

1. This paper contains 5 printed pages. Please check.
2. Answer all questions in section A and section B in the spaces provided.
3. Scientific calculators may be used.
4. All working must be clearly shown.
5. Write your full name at the top of your question paper in the spaces provided.
6. In the table provided on this page, tick against the question number you have answered.

| Question number | Tick if answered | Do not write in this column |  |
|-----------------|------------------|-----------------------------|--|
| 1               |                  |                             |  |
| 2               |                  |                             |  |
| 3               |                  |                             |  |
| 4               |                  |                             |  |
| 5               |                  |                             |  |
|                 |                  |                             |  |



**CANDIDATE'S NAME:** \_\_\_\_\_ **FORM** \_\_\_\_\_

### SECTION A (20 MARKS)

1. Describe an experiment that could be carried out to show the effect of practice on hitting the target in an essay form. In your essay include procedure, expected results and conclusion.

[illegible]

**CANDIDATE'S NAME:** \_\_\_\_\_ **FORM** \_\_\_\_\_

2. Describe an investigation you can carry out to show the effect of air currents or wind speed on rate of transpiration in an essay form. In your essay include procedure, expected results and conclusion.

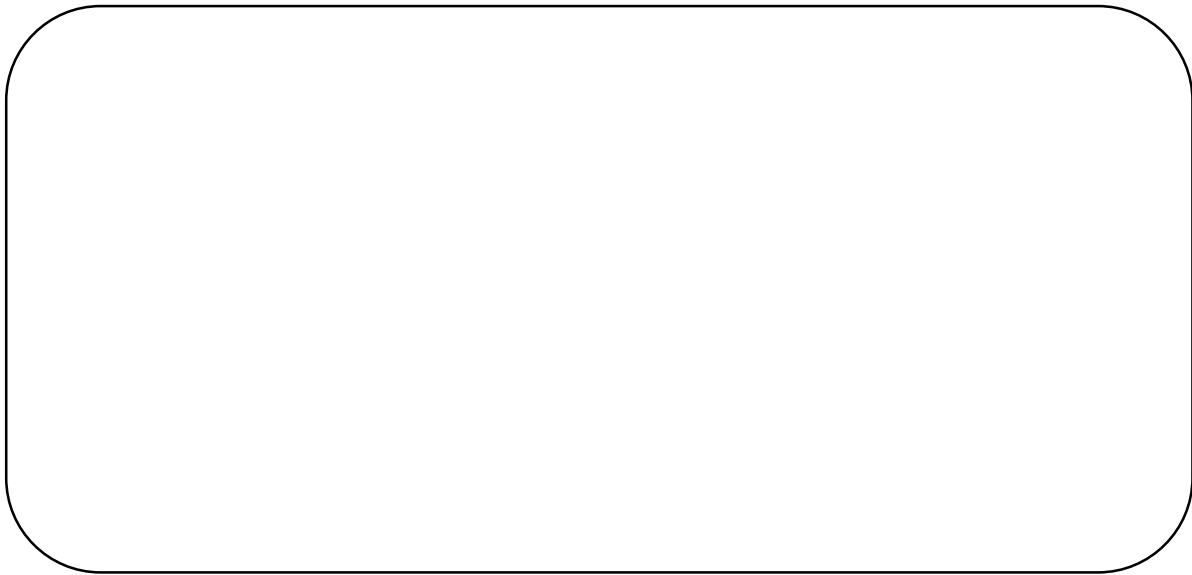
[illegible]

CANDIDATE'S NAME: \_\_\_\_\_ FORM \_\_\_\_\_

**SECTION B (20 MARKS)**

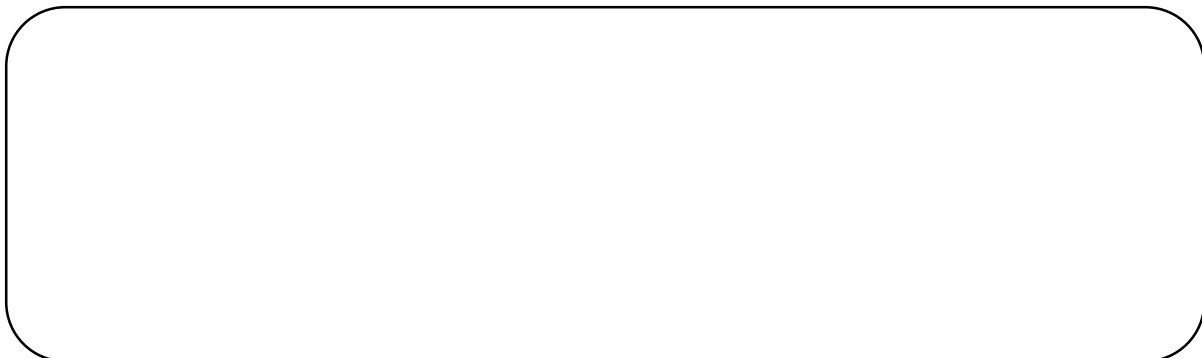
3. You are provided with specimen A.

a. Draw specimen A and label any two locomotory parts



**(3 marks)**

b. Calculate the magnification of your drawing



**(2 marks)**

c. State any two ways in which the specimen A is adapted for locomotion

\_\_\_\_\_  
\_\_\_\_\_  
**(2 marks)**

d. Mention any one nutrient found in specimen A

\_\_\_\_\_  
**(1 mark)**

e. Explain how drying preserves specimen A

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**(2 marks)**

CANDIDATE'S NAME: \_\_\_\_\_ FORM \_\_\_\_\_

4. You are provided with specimen **L**, **M**, **N** and **Z**.

a. State one variation observed between specimen **L** and **Z**.

\_\_\_\_\_ (1mark)

b. Mention the cause of the variation mentioned in 4a

\_\_\_\_\_ (1mark)

c. A cross between **L** and **M** in the Punnet Square below. **R** is an allele for red colour and **W** is an allele for white colour.

|                  |   | Parental gametes |          |
|------------------|---|------------------|----------|
|                  |   | R                | R        |
| Parental gametes | W | RW               | <b>T</b> |
|                  | P | <b>O</b>         | RW       |

i. Write down the gene present on the gamete represented by letter **P**  
\_\_\_\_\_ (1mark)

ii. Give the gametes of **O** and **T**.  
**O** \_\_\_\_\_ (1mark)

**T** \_\_\_\_\_ (1mark)

iii. Write down the possible genotype of specimen **N**.  
\_\_\_\_\_ (1mark)

iv. Mention the genetic term used to describe the behaviour of the alleles in 4c(iii).  
\_\_\_\_\_ (1mark)

d. Give any **two** roles that specimen **Z** plays in the carbon cycle.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2marks)

e. Mention the type of venation associated with specimen **Z**.  
\_\_\_\_\_ (1mark)

**END OF QUESTION PAPER**