



<b>FACULTY</b>	Agriculture, Engineering and Natural Sciences		
<b>DEPARTMENT</b>	Environmental Science		
<b>SUBJECT</b>	Entomology		
<b>SUBJECT CODE</b>	EBL3822		
<b>DATE</b>	November 2022		
<b>DURATION</b>	<b>2 hours</b>	<b>MARKS</b>	<b>70</b>

### **REGULAR EXAMINATION**

**Examiner:** Dr S.J. Eiseb (University of Namibia)

**Moderator:** Prof C.T. Downs (University of KwaZulu-Natal)

This examination paper consists of **Two (2)** pages, including the front page.

**Instructions.**

Answer **ALL** questions in Section A.

Answer **ONLY ONE** question in Section B.

**UNIVERSITY OF NAMIBIA EXAMINATIONS**

## SECTION A

Answer ALL the questions in Section A.

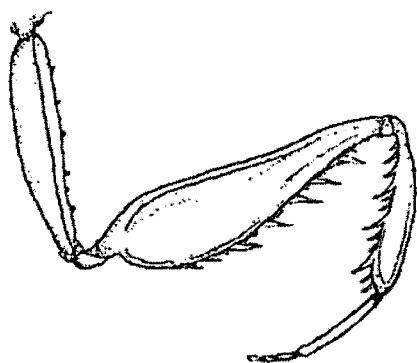
### Question 1

Where would you find the following structures, and b) what is its principal function?

- |      |          |             |
|------|----------|-------------|
| 1.1. | Hamuli   | 4           |
| 1.2. | Halteres | 6           |
|      |          | <b>/10/</b> |

### Question 2

- |      |   |    |
|------|---|----|
| 2.1. | Draw and label a neat diagram of a typical insect wing. | 15 |
| 2.2. | Refer to the figure below:                              |    |



- |      |  |             |
|------|--|-------------|
| a)   | What is the insect leg type depicted above called?   | 1           |
| b)   | Which insect order(s) use this type of leg modification, and what are its functions?         | 4           |
| 2.3. | Differentiate between the following terms: Kairomone and Allomone                            | 4           |
| 2.4. | Describe mechanisms employed by some insects for specific, directional means of host finding | 11          |
|      |  | <b>/35/</b> |

## SECTION B

Answer any **ONE (1)** question from Section B.

### Question 1

- |                                    |             |
|------------------------------------|-------------|
| Write an essay to discuss myiasis. | 25          |
|                                    | <b>/25/</b> |

### Question 2

- |   |             |
|---|-------------|
| Write an essay to discuss micro- and macro-biological control agents of insect pests. | 25          |
|   | <b>/25/</b> |

<b>Total Section B</b>	<b>25</b>
<b>Grand Total</b>	<b>/70/</b>