



1st SEMESTER 2008/2009

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMMES: BACHELOR OF SCIENCE IN AGRONOMY YEAR 2,
BACHELOR OF SCIENCE IN HORTICULTURE YEAR 2,
AND BACHELOR OF SCIENCE IN AGRICULTURAL
EDUCATION YEAR 2**

TITLE OF PAPER: AGRICULTURAL ENTOMOLOGY

COURSE CODE: CP 201

TIME ALLOWED: TWO (2) HOURS

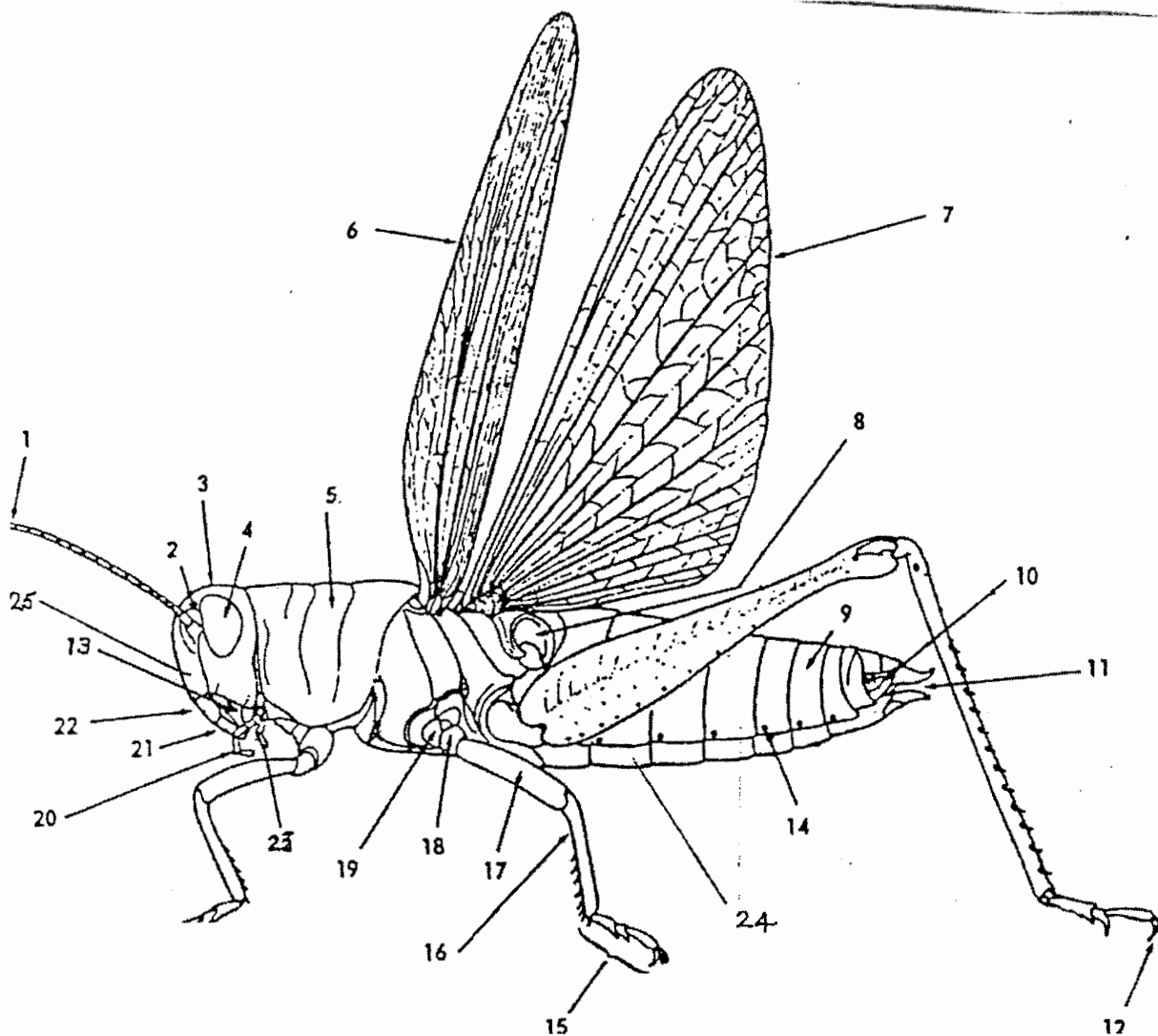
- INSTRUCTIONS:**
- 1. THIS PAPER HAS FIVE (5) QUESTIONS**
 - 2. ANSWER QUESTION 1 AND ANY OTHER THREE (3) QUESTIONS**
 - 3. ALL QUESTIONS CARRY EQUAL MARKS OF TWENTY FIVE (25). MARKS FOR SUBSECTIONS ARE GIVEN IN BRACKETS WHERE APPLICABLE**

**THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN
GRANTED BY THE CHIEF INVIGILATOR**

Instruction:- Answer Question 1 and any other three (3) questions

Question 1

Write numbers 1 – 25 in your answer-book. What are the names of the insect parts labelled 1 – 25 in the sketch below?
(25 Marks)



Question 2

- (a) Give five (5) reasons why honey bees are good plant pollinators. (5)
 - (b) Give five (5) ways in which plants get adapted for insect pollination (5)
 - (c) In which five (5) ways are insects beneficial to man? (5)
 - (d) Give five reasons why insects are so successful on this planet (10)
- (25 Marks)**

Question 3

Copy this table onto your answerbook and complete it by filling in blank spaces below:-

Insect Order	Example (1)	Mouthparts (1)	Wings (2)	Unique structures (1)
1. Orthoptera				
2. Coleoptera				
3. Lepidoptera				
4. Hemiptera (Heteroptera)				
5. Hemiptera (Homoptera)				

(25 Marks)**Question 4**

- (a) What is the difference between ordinary grasshoppers and locusts? (5)
- (b) Name four (4) species of insects that we commonly refer to as locusts in Africa.
Indicate in which African countries each of these are found. (8)
- (c) Explain why locust outbreaks are seasonal (12)

(25 Marks)**Question 5**

- (a) Make a labelled sketch the cross section of an insect's bodywall (10)
- (b) What are the functions of the following insect body parts?
- (i) Furcula (3)
 - (ii) Haltere (3)
 - (iii) Collophore (3)
 - (iv) Corbiculum (3)
 - (v) Hypopharynx (3)

(25 Marks)