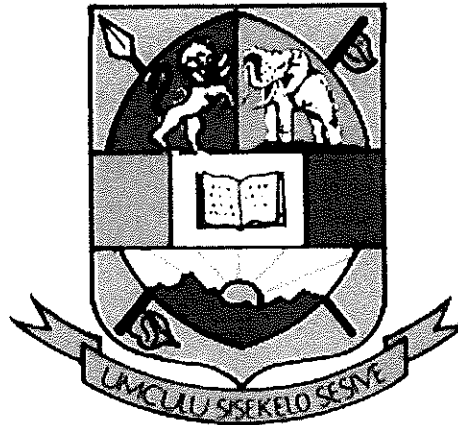


1<sup>st</sup> Semester 2020/21



UNIVERSITY OF ESWATINI  
FINAL EXAMINATION PAPER

PROGRAMME

BACHELOR OF SCIENCE IN AGRONOMY YEAR 1

BACHELOR OF SCIENCE IN AGRICULTURAL EXTENTION YEAR 1

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION YEAR 1

BACHELOR OF SCIENCE IN HORTICULTURE YEAR 1

COURSE CODE: CPR101

TITLE OF PAPER: INTRODUCTORY TO AGRICULTURAL ENTOMOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ANY **FOUR (4)** QUESTIONS

DO NOT OPEN THIS PAGE UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF  
INVIGILATOR

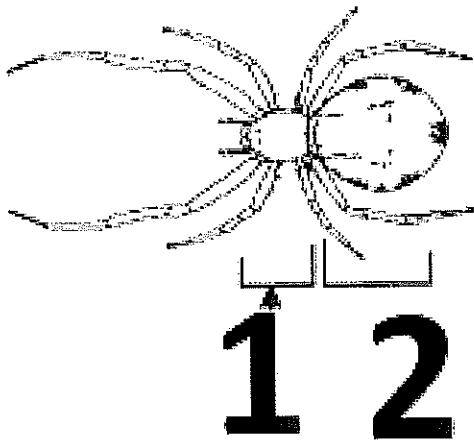
1<sup>st</sup> Semester 2020/21

**Question 1 (25 Marks)**

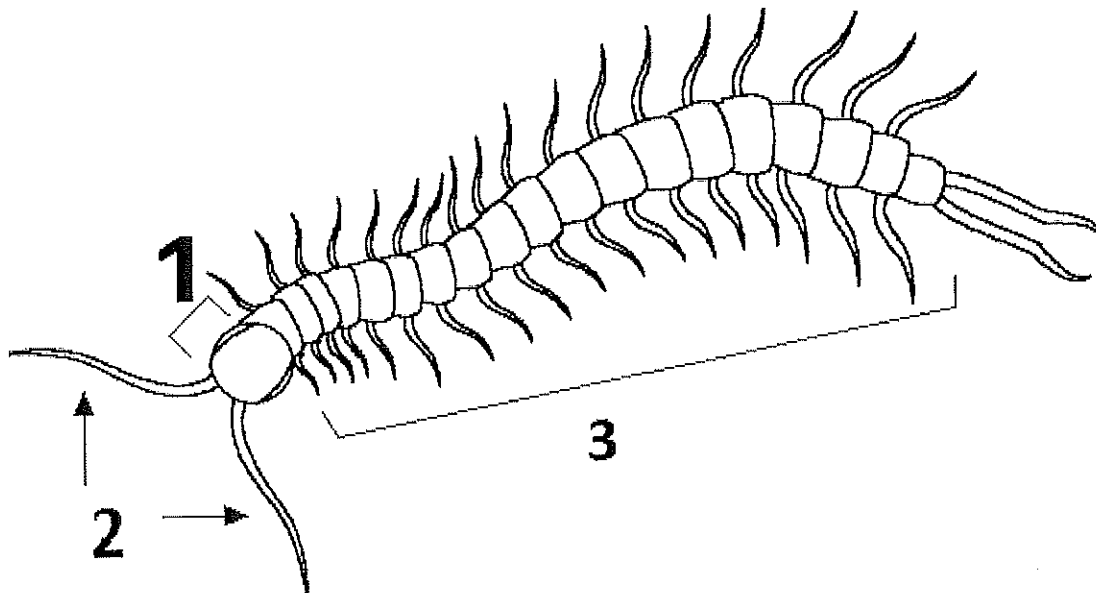
a) Name the subphylum, the class and common name of the following organisms

(5 marks)

**i**



**ii**



a) Name the body parts indicated by numbers 1,2 and 3

(5 Marks)

b) Explain the function/s of parts labelled

(15 Marks)

1<sup>st</sup> Semester 2020/21

**Question 2 (25 Marks)**

Discuss the differences and similarities between the following

- a) Larva and Nymph (5 Marks)
- b) Exoskeleton and cuticle (5 Marks)
- c) Tagmata and segment (5 Marks)
- d) Insect and Hexapod (5 Marks)
- e) Epipharynx and Hypopharynx (5 Marks)

**Question 3 (20 Marks)**

- a) Define digestion (2 Marks)
- b) Draw typical insect digestive system and label the parts (9 Marks)
- c) Explain how food is digested in the parts you labelled (14 Marks)

**Question 4 (25 Marks)**

Copy this table onto your answer book and complete it by filling your answers in the empty boxes (each box carries one Mark)

Insect name	Insect order	Type of metamorphosis	Type of mouth part	Unique feature of its wing	Name a feature of the immature
Mosquito					
Weevil					
Butterfly					
Cockroach					
Aphid					

**Question 5 (25 marks)**

- a) Explain why insects are most successful group of organisms on the planet (9 Marks)
- b) Discuss the reasons for the success of insects (16 Marks)