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ABT 103



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

**MAIN CAMPUS
MAIN EXAMINATIONS**

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

**FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE AND
BIOTECHNOLOGY**

COURSE CODE: ABT 103

COURSE TITLE: INTRODUCTION TO ENTOMOLOGY

DATE: 6.12.23

TIME: 8-11AM

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and ANY TWO questions in section B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

SECTION A SHORT ANSWER QUESTIONS (30 MARKS)

- 1) State characteristics of the class insecta **(6 marks)**
- 2) Explain why it is important to study insects **(6 marks)**
- 3) Name one insect which has the following feature:
 - a) Piercing and sucking mouthparts
 - b) Siphoning mouthparts
 - c) Genuiculate antennae
 - d) Setaceous antennae
 - e) Hemelytra wings
 - f) Raptorial legs **(6 marks)**
- 4) Outline the functions of an insect integument **(6 marks)**
- 5) Give the order in which each of the following insects is classified:
 - a) House fly
 - b) Butterfly
 - c) Aphid
 - d) Grasshopper
 - e) Thrips
 - f) Dragonfly **(6 marks)**

SECTION B ESSAY QUESTIONS (40 MARKS)

- 6) Describe an insect's digestive system **(20 marks)**
- 7) Write an essay on the factors that make insects the most successful invertebrates **(20 marks)**
- 8) Describe various insect abdominal appendages **(20 marks)**