

30  
AAP 325



(University of Choice)

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

**MAIN CAMPUS  
MAIN EXAMINATIONS**

**UNIVERSITY EXAMINATIONS  
2023/2024 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE  
DEGREE OF BACHELOR OF SCIENCE IN ANIMAL  
PRODUCTION AND PROCESSING**

**COURSE CODE: AAP 325**

**COURSE TITLE: APICULTURE**

**DATE: 7.12.23**

**TIME: 12-2PM**

---

**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) Define apiculture and explain how it has evolved through the last 4000 years **(6 marks)**
- 2) Explain how bee morphological adaptations are related to their foraging efficiency  
**(6 marks)**
- 3) Explain how eusociality and generalistic foraging adaptations have contributed to the success of bees  
**(6 marks)**
- 4) Define the following terms: **(6 marks)**
  - a) Swarming
  - b) Supersedure
  - c) Foraging
  - d) Pheromone
  - e) Drone
  - f) Caste
- 5) List three (3) types of bee hives and state one advantage of each **(6 marks)**

**SECTION B ESSAY QUESTIONS (40 MARKS)**

- 6) Discuss the values of apiculture **(20 marks)**
- 7) You have been given an assignment of setting up an apiary. Explain the factors that you would consider before you start setting up the project **(20 marks)**
- 8) Write an essay on the honey bees chemical communication **(20 marks)**