



**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**  
**FIRST YEAR EXAMINATION FOR THE AWARD OF THE**  
**DIPLOMA IN ANIMAL HEALTH / ANIMAL SCIENCE**  
**SECOND SEMESTER 2022/2023**  
**(SEPTEMBER - DECEMBER, 2022)**

**ANSC 0363: APICULTURE AND SERICULTURE**

**STREAM: Y2 S2**

**TIME: 2 HOURS**

**DAY: TUESDAY, 12:00 P.M – 2:00 P.M**

**DATE: 06/12/2022**

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**INSTRUCTIONS:**

- 1. Do not write anything on this question paper.**
- 2. Answer ALL Questions in section A (Compulsory) and any other TWO Questions in section B.**

**SECTION A (40MARKS)**

Question one

- Define the term apiculture (3marks)
- State 9 advantages of Apiculture over other farm enterprises (9marks)

**QUESTION TWO**

- Briefly explain the term “ pheromones “ (2marks)
- State four types of pheromones produced by honey bees and state their function (8marks)

**QUESTION THREE**

- Define the term “ sericulture” (3marks)
- State seven advantages of sericulture (7marks)

**QUESTION FOUR**

Discuss the nosema disease of adult bees based on the following :

- Causative agent
- Symptoms
- Control

## **SECTION B 30MARKS**

### **QUESTION FIVE**

Briefly explain ten activities carried out by honey bees. (15marks)

### **QUESTION SIX**

A honey bee colony consists of three castes; name them and in each case, state their functions (15marks)

### **QUESTION SEVEN**

- a) Briefly discuss the origin of sericulture (11marks)
- b) State four types of natural silk which are commercially known and produced in the world (4marks)

### **QUESTION EIGHT**

- a) Discuss the life cycle of silk worm and state the duration it takes from one stage to the next. (9marks)
- b) State the benefits based on the life cycle of silk worm as compared to other farm enterprises (6marks)