



KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF THE CERTIFICATE IN
ANIMAL SCIENCE / HEALTH
SECOND SEMESTER 2023/2024
[JULY, 2024]**

ANSC 00363: APICULTURE AND SERICULTURE

STREAM: Y2 S2

TIME: 3 HOURS

DAY: THURSDAY, 3:00 - 5:00 P.M.

DATE: 25/07/2024

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer question ONE (Compulsory) and any other TWO questions.***

SECTION A- 40 MARKS

1. State five distinguishing traits which you can use to distinguish different species of honey bee (10 marks)
2. Discuss seven characteristics of honey bees which have made them efficient plant pollinators than other insects in modern agricultural production (7 marks)
3. discuss silkworm management under the following:
 - a) Disinfection
 - b) Temperature and humidity
4. a. Define the term “moulting” in silk worm rearing (2marks)
b. State the 3 signs of moulting and 5 signs of getting out of moulting (8 marks)

SECTION B – ANSWER ANY TWO QUESTIONS ONLY 30 MARKS

5. Give a brief history of the origin of honey bee production (15 marks)
6. a. Pollen is one of the live products. Discuss it based on the following
 - i. chemical properties
 - ii. usesb. State 5 other live products

7. a) there are several equipments used in silk worm rearing, state atleast 9 of them
- b) Briefly discuss the environmental condition for moulting in silk worm rearing (2 marks)
8. a) State 3 methods used in the production of all – male fingerlings in fish farming (3 marks)
- b) Discuss the process of hormonal sex reversal (12 marks)