



# KISII UNIVERSITY

## UNIVERSITY EXAMINATIONS

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

**ANSC 00365: APICULTURE AND AQUACULTURE**

**STREAM: Y2 S2**

**TIME: 2 HOURS**

**DAY: MONDAY, 9:00 - 11:00 A.M.**

**DATE: 29/07/2024**

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**INSTRUCTIONS**

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

**SECTION A- 40 MARKS**

- a) State 7 (seven) factors which affect honey bees behavior (7marks)
  - b) Anatomy of honey bee is divided into 3 segments, name them. (3 marks)
- a) Discuss the seven reasons for honey bee farming in Kenya (7marks)
  - b) State 3 major races of *Apis melufera* and in each case give one example (3 marks)
- Briefly discuss stone brood disease of honey bee based on the following:
  - i. Causative agent
  - ii. Symptoms
  - iii. Control (10 marks)
- a) State 3 levels of aquaculture production (3marks)
  - b) State the disadvantages of intensive system of aquaculture production (4 marks)
  - c) Define the term “feed conversion ratio” as used in aquaculture (3 marks)

**SECTION B – ANSWER ANY TWO QUESTIONS ONLY 30 MARKS**

5. discuss five nutrients required in a fish feed (15 marks)
6. a. state 7 natural types of fish feed (7marks)
- b. State 8 by-products of fish (8marks)
7. a) Briefly state atleast 10 constraints facing bee farming in Kenya (13 marks)
- b) Define the term “Apiculture” (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)