



# KISII UNIVERSITY

## UNIVERSITY EXAMINATIONS

**THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF  
SCIENCE IN ANIMAL SCIENCE  
SECOND SEMESTER 2024/2025  
[JANUARY – APRIL, 2025]**

**ANSC 265: AQUACULTURE**

**STREAM: Y2 S2**

**TIME: 2 HOURS**

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

**DATE: 11/04/2025**

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**INSTRUCTIONS:**

- 1. Do not write anything on this question paper.**
- 2. Answer ALL questions in section A and any TWO in section B.**

**SECTION A: (40 MARKS)**

- Briefly explain FOUR roles of fisheries sector in Kenya. (3 Marks)
- Briefly describe the THREE categorization of fish by their habitat.(3 Marks)
- Outline THREE factors to consider for maximum growth of *Clarias gariepinus* fingerlings in an aquarium before being transferred to ponds. (3 Marks)
- Describe THREE types of marketing of fish and fish products. (3 Marks)
- Briefly explain characteristics of capture fisheries. (3 Marks)
- Explain why *Oreochromis niloticus* and *C. gariepinus* are widely considered as the best aquaculture candidates in Kenya. (4 Marks)
- Describe FOUR various techniques of fish farming practiced in Kenya. (4 Marks)
- Explain the factors that contribute to heavy mortality of fish fries in nursery ponds. (4 Marks)
- Describe briefly any FOUR fishing methods. (4 Marks)
- Write short notes on any THREE fish preservation methods commonly practiced in Kenya. (3 Marks)
- Explain why fisheries stock have dwindled over time globally.(3 Marks)

**SECTION B: (30 MARKS)**

- a) Discuss pre-harvesting steps for *O. niloticus* grown in cages. (5 Marks)
  - b) Explain the requirements for the harvesting process of *O. niloticus* grown in cages.

- (5 Marks)
- c) Discuss the steps involved in proper post-harvest procedure of *O. niloticus* grown in cages. (5 Marks)
13. Explain how fisheries contribute to the achievement of Sustainable Development Goals (SDGs). (15 Marks)
14. Discuss THREE diseases that affect *C. gariepinus* in terms of occurrence, symptoms, prevention and treatment. (15 Marks)