



KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF THE DIPLOMA IN
ANIMAL HEALTH AND PRODUCTION
FIRST SEMESTER 2023/2024
[JULY, 2024]**

ANSC 0365: AQUACULTURE

STREAM: Y2 S1

TIME: 2 HOURS

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

DATE: 22/07/2024

INSTRUCTIONS

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

SECTION A (40 MARKS)

QUESTION ONE

- Discuss the following two forms of intensive aquaculture system (6 marks)
 - RAS (recirculatory aquaculture system)
 - Cage culture fish farming
- State the disadvantages of intensive fish production system. (4 marks)

QUESTION TWO

- There are three types of feed used in fish feeding. State them and state the type of aquaculture production system in which they are used (6 marks)
- State any two terrestrial plants and two terrestrial animals used in fish feeding (4 marks)

QUESTION THREE

- Discuss the nutritive value of fish (4 marks)

- b) Discuss the reasons for artificial recruitment of fish (4 marks)
- c) Define feed conversion ratio (FCR) (2 marks)

QUESTION FOUR

For one to formulate a specific feed for a particular fish, he or she needs to know the nutritional needs of that fish. State the five nutritional needs of fish (10 marks)

SECTION B (30 SMARKS)

QUESTION FIVE

Briefly discuss the objectives of aquaculture production (15 marks)

QUESTION SIX

- a) Discuss the reasons for fish aquaculture as a source of protein (6 marks)
- b) State the characteristics of fish nutritionally which are not common to other animals in terms of dietary requirements (6 marks)
- c) State three agricultural by-products that can be used as supplementary feed for fish (3 marks)

QUESTION SEVEN

- a) Write short notes on complete feed used in fish farming (8 marks)
- b) State three main system of aquaculture production (3 marks)
- c) State four types of fish normally cultured in Kenya (4 marks)