



KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

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

ANSC 00365: AQUACULTURE

STREAM: Y2 S2

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 (Compulsory) and any other TWO questions.**

SECTION A- 40 MARKS

- a) Briefly define the term “Aquaculture” (3 marks)
 - b) State 7 examples of crops (fish) that can be produced from aquatic media (7 marks)
- a) discuss the nutritive value of fish (4 marks)
 - b) State at least six by products of fish (6 marks)
- a) What are the three reasons of fish aquaculture as a source of protein (3 marks)
 - b) State seven sources of natural feeds of fish (7marks)
- a) State three advantages and 2 disadvantages of cage culture system of fish farming (5 marks)
 - b) what are the clinical signs of essential fatty deficiency in fish (5 marks)

SECTION B – ANSWER ANY TWO QUESTIONS ONLY 30 MARKS

- Briefly discuss the five nutrients required in fish diet (15 marks)
- a. What are the factors a farmer should consider when He/She want to start artificial fish production (12 marks)
 - a. State 3 factors that have endangered human health in aquaculture (3 marks)

7. a) Supplementary feeds for fish normally come in two forms. Name and briefly discuss them including their moisture content percentage (10 marks)
- b) Briefly discuss hormonal sex reversal in fish production (5 marks)