



**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**  
**FIRST YEAR EXAMINATION FOR THE AWARD OF THE**  
**DIPLOMA IN ANIMAL HEALTH / ANIMAL SCIENCE**  
**SECOND SEMESTER 2022/2023**  
**(SEPTEMBER - DECEMBER, 2022)**

**ANSC 0365: AQUACULTURE**

**STREAM: Y2 S2**

**TIME: 2 HOURS**

**DAY: THURSDAY, 9:00 A.M – 11:00 A.M**

**DATE: 08/12/2022**

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**INSTRUCTIONS:**

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

**SECTION A (40MKS)**

**QUESTION ONE**

- There are 3 types of feeds used for fish feeding, state them and state the type of aquaculture that are used (6marks)
- State any two terrestrial plants and two terrestrial animals used in fish feeding (4marks)

**QUESTION TWO**

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

**QUESTION THREE**

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

**QUESTION FOUR**

- Discuss the following 3 forms of intensive aquaculture in fish management under RAS system (6marks)
- State disadvantages of intensive fish production system (4marks)

**QUESTION FIVE**

Briefly discuss nine objectives of aquaculture farming (15marks)

**QUESTION SIX**

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