



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY**

**MAIN CAMPUS
MAIN EXAMINATIONS**

**UNIVERSITY EXAMINATIONS (REGULAR)
2021/2022 ACADEMIC YEAR**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF
B.Sc. IN: FISHERIES AND AQUACULTURE, AND ANIMAL PRODUCTION**

COURSE CODE: AAF 222

COURSE TITLE: PRINCIPLES OF AQUACULTURE

DATE: 25TH APRIL, 2022

TIME: 8-10PM

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and ANY TWO questions in section B

TIME: 2 Hours

Total marks=70

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

SECTION A: Answer ALL Questions in this Section: (30 Marks)

Q1.a) Define the following terms:

(i) Mariculture (2 marks)

(ii) Poyculture (2 marks)

b) Describe six characteristics of Nile tilapia that makes it suitable for fresh water aquaculture species (6marks)

Q2. (a) Define the term feed conversion ratio as used in fish farming (2 marks)

(b) Discuss four factors that affect feed conversion ratio during culture management. (4 marks)

(c) In Mrs. Waititu's Farm, a total of 500 kg of fish feed was used to produce 416 kgs of tilapia in a cycle of seven months. The stocking biomass was 10 kgs.

i. Calculate the Feed conversion ratio of the feed (3 marks)

ii. If a kg of feed costs KES.120.00, calculate the total cost of the feed (1 mark)

Q3 (a) Discuss five reasons why we feed fish (5 marks)

(b) Discuss five challenges/constrains in fish farming (5 marks)

SECTION B: Answer any TWO Questions from this Section: (40 Marks)

Q4. Describe the aquaculture intensities that are used to farm fish in Kenya (20 marks)

Q5. Describe the best management practices in fish farming (20 marks)

Q6. Discuss the factors that need to be considered before establishing a fish farming facility (20 marks)