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AAF 222



University of choice

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
SECOND SEMESTER 2023/20224 ACADEMIC YEAR**

**MAIN EXAMS
OF
BACHELOR OF ANIMAL PRODUCTION**

COURSE CODE: AAF 222

COURSE TITLE: FISH FARMING

DATE: 9.04.2024

TIME: 3-5PM

INSTRUCTIONS TO CANDIDATES

This paper is divided into two sections, **A and B**. Answer ALL Questions in SECTION A and any Two in SECTION B

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

SECTION A: ANSWER ALL QUESTIONS (40 MARKS)

1. Define the following terms: -
 - a) Aquaculture (2mk)
 - b) Monosex fingerlings (1mk)
 - c) Feed conversion ratio (2mk)
2. State and explain importance of aquaculture in Kenya (5mks).
3. List symptoms of unhealthy fish stock(5mks)
4. Explain various ways of controlling predation in grow out facilities(5mks)
5. List five management practices to a grow out facility (5MKS)
6. Mr. John Muema is a fish farmer in Lurambi Sub County, he stocked 1000 pieces of fish in his grow out facility. The fingerlings were weighing 2 grams each at the time of stocking. After two months of stocking, the fish gained weight to 6 grams each. It was indicated on feeding records that the farmer had used 12kg to feed the fish over that period of 2 months
 - a. Calculate the feed conversion ratio of the above feed (4mks)
 - b. If the farmer is to rear the fish stock to attain weight of 300g of each fish. Calculate the quantity of feeds that the farmer will require for 1000 fish stocked? (4mks)
 - c. If the feeds are in a bag of 25kg, calculate, the number of bags that a farmer will buy for a production cycle? (1mk)
 - d. If 1kg of feed cost kshs.60, calculate the cost of producing one kg of fish (2mks)
 - e. If a farmer was to sell a kilo of fish at kshs.600, calculate the net income at the end of production cycle?(1mk)
 - f. will you recommend the farmer to continue using the feed on his farm? (1mks)
 - g. explain how to feed fish in a grow out facility (3mks)

SECTION B(30MKS)

ANSWER 2 QUESTIONS ONLY

6. i) Discuss factors considered siting a fish farm (5mks)
 - ii) explains steps followed when constructing a fish pond(7mks)
7. Discuss various ways of preparing a fish pond before stocking fish(15mks)
8. Discuss biosecurity measures that can be put in place on a fish farm (15mks)
- 9.i) Explain various forms of aquaculture systems in culture(10mks)
 - ii) list five culture systems used in rearing systems (5mks)
10. Explain various methods of fish preservation(10mks)

