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AAF 315



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)
SCHOOL OF AGRICULTURE, VETERINARY SCIENCES AND
TECHNOLOGY (SAVET)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

**MAIN EXAMS
OF
BACHELOR OF SCIENCE IN FISHERIES AND AQUACULTURE**

COURSE CODE: AAF 315

COURSE TITLE: AQUACULTURE SYSTEMS

DATE: 8.12.23

TIME: 12-2PM

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

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SECTION A: ANSWER ALL QUESTIONS (40 MARKS)

Q1. Define the terms (4mks)

- i) Freshwater fish farming
- ii) Brackish water fish farming
- iii) Marine water fish farming
- iv) Monoculture

Q2. Define and explain the advantages of aquaculture (6mks)

Q3. Outline the different systems of aquaculture based on enclosure (6mks)

Q4. Distinguish between Intensive and extensive fish farming systems (4mks)

Q5. Name the advantages of cage culture (4mks)

Q6. a) State the meaning of integrated fish farming (2mks)

b) Outline any four systems of integrated fish farming (4mks)

Q7. Explain the disadvantages of the following water sources:

a) Run-off (4mks)

b) Natural waters (4mks)

Q8. Outline the three methods of testing the suitability of soil during earthen fish pond construction (2mks)

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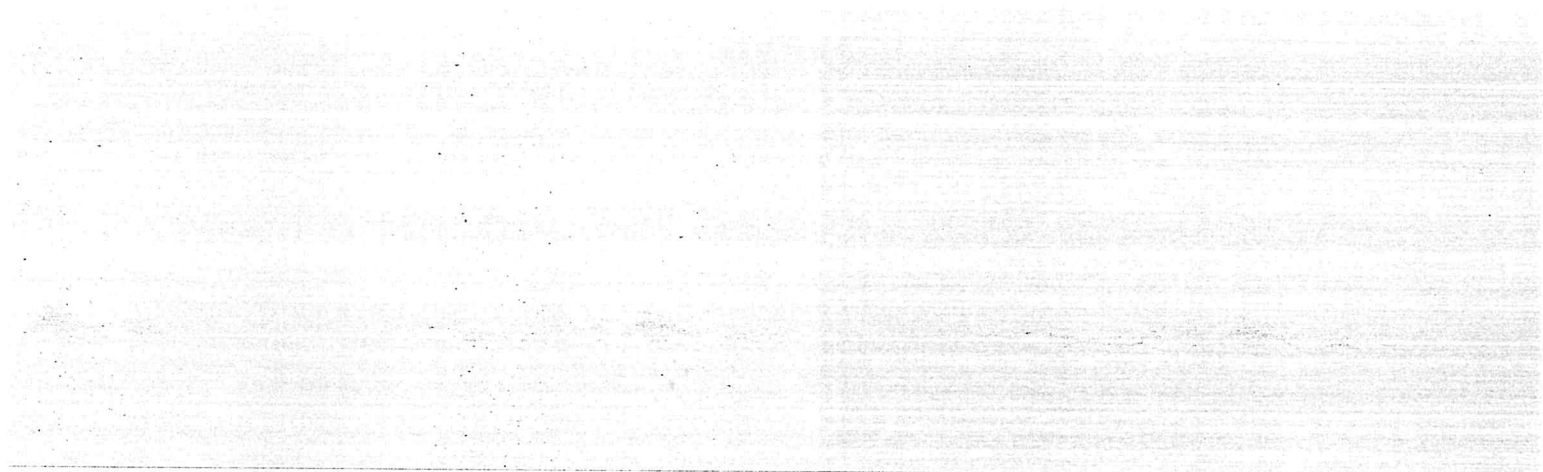
SECTION B

Q9. You have been approached by a fish farmer who intends to establish a fish farm of several earthen fish ponds. Discuss the factors that you will consider in identifying a suitable site for the farm (15mks)

Q10. Discuss the steps you would follow when constructing an earthen fish pond. (15mks)

Q11. Discuss the different types of fish ponds on a fish farm (15mks)

Q12. What is stocking density? Explain pre-stocking measures. (15mks)



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