



University of choice

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

MAIN CAMPUS

**SECOND SEMESTER UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

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

COURSE CODE: AAF 320

COURSE TITLE: FISH DISEASES I

DATE: 8.04.2.24

TIME: 8-10AM

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)

Q1. Explain the impact of crustacean infections on the health and behavior of fish hosts.

(6mks)

Q2. Describe the structural features of common viral pathogens affecting fish

(6mks)

Q3. Explain how fish behavior can be indicative of an infection.

(6mks)

Q4. Describe the steps involved in the isolation of bacterial pathogens from a clinical sample

(6mks)

Q5. Outline the strategies that can be employed to mitigate the impact of parasites on fish populations.

(6mks)

Q6. What are the key characteristics that distinguish fungal infections from other types of diseases in fish?

(6mks)

Q7. Outline different diagnostic methods used in the identification of fish infections.

(6mks)

Q8. Describe the interactions between Protozoa fish parasites and their fish hosts.

(6mks)

SECTION B

Q9. Discuss the different strategies for controlling and managing parasitic infections in fish farms.

(15mks)

Q10. Discuss advances in diagnostic technologies and their applications in the field of fish bacteriology.

(15mks)

Q11. Discuss the factors that influence the choice of culture conditions for different types of pathogens, such as bacteria, fungi, and viruses.

(15mks)

Q12. Discuss the role of different nutrients, such as proteins, vitamins, and minerals, in preventing nutritional disorders in fish.

(15mks).