



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

**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**SUPPLEMENTARY EXAMS  
OF  
BACHELOR OF SCIENCE IN FISHERY**

**COURSE CODE: AAF 320**

**COURSE TITLE: FISH DISEASES**

**DATE: 26.7.22**

**TIME: 8-10PM**

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**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

## **AAF 320:FISH DISEASES**

### **SECTION A (Answer all questions in this section)**

- Q1. Describe the signs of fin rot in Fish (5mks)
- Q2. Briefly discuss the effects of poor water quality on the health of fish (5mks)
- Q3. Describe the clinical signs of systemic viral infections in fish (5mks)
- Q4. Explain how local bacterial infections in fish can become systemic (5mks)
- Q5. State the etiologies/ causes of the following clinical signs in fish (5mks)
- i) Liver necrosis in Salmon
  - ii) Ulcers in Cods
  - iii) Hemorrhages in Flounder
  - iv) Dropsy
  - v) Ich
- Q6. Discuss briefly how parasitic fish diseases can be diagnosed (5mks)
- Q7. Outline the symptoms in fish caused by either acidosis or alkalosis of the water (5mks)
- Q8. Discuss the treatment of swim bladder disorder (5mks)

### **SECTION B (answer any two questions in this section)**

- Q9. Describe the clinical signs, etiology, treatment and prevention of swim bladder disorder (15mks)
- Q10. Discuss the control and prevention of bacterial fish diseases (15mks)
- Q11. Discuss nutritional and environmental factors of fish diseases (15mks)
- Q12. Describe amoebic gill disease (AGD) under the following headings (15mks)
- i) Etiology
  - ii) Clinical signs
  - iii) Diagnosis
  - iv) Protection/control strategies