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**AAF 311**



**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  
B. SC. IN FISHERIES AND AQUACULTURE**

**COURSE CODE: AAF 311**

**COURSE TITLE: WATER QUALITY AND POLLUTION  
CONTROL**

**DATE 7.12.23**

**TIME: 12-2PM**

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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

**AAF311**

**SECTION A: ANSWER ALL QUESTIONS (40 MARKS)**

- Q1. Define the terms (4mks)
- i) Water quality
  - ii) Potable water
  - iii) Palatable water
  - iv) Contaminated water
- Q2. Explain giving examples physical water quality parameters (6mks)
- Q3. Outline the chemical water quality parameters and how they are measured (6mks)
- Q4. Name the compounds that determine water taste and odour (4mks)
- Q5. Explain the influence of temperature on water quality (4mks)
- Q6. a) State the main colours of water: (2mks)
- b) Explain the effect of pH on aquatic animals and plants (4mks)
- Q7. Define and explain the following water quality parameters
- a) Turbidity (4mks)
  - b) Electrical conductivity (4mks)
- Q8. Distinguish between acidity and alkalinity of water (2mks)

**SECTION B**

- Q9. Discuss the importance of the following water quality parameters in Tilapia(*Oreochromis niloticus*) culture. pH, Acidity, Alkalinity (15mks)
- Q10. Giving examples, discuss the biological water quality parameters. (15mks)
- Q11. Discuss pollution problems in lakes and rivers (15mks)
- Q12. Define Environmental Impact Assessment and state the advantages of conducting EIA before establishment of fish farms (15mks)