



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

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

**MAIN EXAMINATIONS
MAIN CAMPUS**

SECOND YEAR SECOND SEMESTER EXAMINATIONS

**FOR THE
DIPLOMA IN APPLIED BIOLOGY**

COURSE CODE: DSB 049

**COURSE TITLE: AQUARIUM AND VIVARIUM
TECHNIQUES**

DATE: THURSDAY, 21ST APRIL 2022

TIME: 3:00 – 5:00 P.M.

INSTRUCTIONS TO CANDIDATES

ASWER ALL QUESTION IN SECTION A AND TWO QUESTIONS IN SECTION B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating
DSB 049: AQUARIUM AND VIVARIUM TECHNIQUES

This Paper Consists of 2 Printed Pages. Please Turn Over. 

SECTION A (SHORT ANSWER QUESTIONS, 40 MARKS)

1. Define the following terms as used in aquarium and vivarium techniques; (3 marks)
 - (i) Aquarium
 - (ii) Aquaculture
 - (iii) Terrarium
2. Describe the contents of an aquarium. (5 marks)
3. What are the challenges faced by an upcoming aquarist in aquaculture. (5 marks)
3. State the steps involved in the construction and setting up of an aquarium. (5 marks)
4. Outline common fish tank problems. (5 marks)
5. Explain animal behaviours that indicate disease outbreak in a vivarium. (6 marks)
6. Briefly explain how fish is fed in an aquarium. (5 marks)
7. Outline how waste disposal is carried out in a vivarium. (5 marks)
8. Explain the common types fish families in aquaculture. (6 marks)

SECTION B (ESSAY QUESTIONS, 30 MARKS)

9. Discuss the care and maintenance of an Aquarium (15 marks)
10. Explain in detail the challenges posed by emerging issues and trends in aquaculture as well as the possible solutions to those challenges. (15 marks)
11. Describe the diseases of vivarium animals and their management. (15 marks)