



1<sup>ST</sup> SEM. 2020/2021

UNIVERSITY OF ESWATINI

FINAL EXAMINATION PAPER

**PROGRAMME:** BSc. IN ANIMAL SCIENCE YEAR IV  
BSc. IN AGRICULTURAL EDUCATION YEAR IV  
BSc IN AGRICULTURAL EXTENSION YEAR IV  
BSc IN AGRICULTURAL BIOSYSTEMS & ENGINEERING  
YEAR IV

**COURSE CODE:** ASC403/AS 404

**TITLE OF PAPER:** FISH FARMING

**TIME ALLOWED:** TWO (2) HOURS

**INSTRUCTIONS:** ANSWER ANY FOUR (4) QUESTIONS

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY  
THE CHIEF INVIGILATOR.**

**Question 1**

- (a) You wake up in the morning and you visit your fish pond and find your fish gasping for air on the water surface, explain what might have happened. **(2 Marks)**
- (b) What could be the dangers of stocking in different times in the same pond? **(3 Marks)**
- (c) It is in June, Mr Dlamini who lives in Manzini has been asking for the extension officer to come and stock his pond with fish but the extension officer could not stock the pond. Advise the farmer how he could stock his pond with fish. **(5 Marks)**
- (d) A farmer who has recently harvested his fish after 8 months of production is approaching you and complaining that his fish did not grow to a market size. As an Aquaculture expert explain to the farmer what might have happened and what are the steps that might be taken to rectify the problem. **(15 marks)**

**Question 2**

In the country there is no local producer of aquaculture feed and your neighbour approaches you to help in fish feed processing. Describe the processes involved in processing fish feed. **(25 Marks)**

**Question 3**

Write an essay on infectious and non-infectious diseases of fish with examples of diseases and the treatment methods used. **(25 Marks)**

**Question 4**

Describe the reproduction of tilapia and explain its life cycle.

**(25 Marks)**

**Question 5**

Write short notes on the following:

- a) Class Agnatha **( 5 Marks)**
- b) Fish respiration **(5 Marks)**
- c) Fish Fins **(5 Marks)**
- d) Class Osteichthyes **(5 Marks)**
- e) Fish characteristics **(5 Marks)**