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## UNIVERSITY OF SWAZILAND

2<sup>nd</sup> SEM 2013/2014

## FINAL EXAMINATION PAPER

B.Sc. AN.SCI YEAR IV, B.Sc. A.E.E. YEAR IV, B.Sc. PROGRAMME: AG.ED YEAR IV, B.Sc. ABE YEAR IV

COURSE CODE: 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

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QUESTION 1	
a) Describe Swaziland's subsistence fish farming.	(5 Marks)
b) Explain the function of mucus in the fish.	(10 Marks)
c) Briefly discuss polygyny and polyandry behaviour of Oreochro	omis species. (10 Marks)
QUESTION 2	
a) Explain how to obtain a supermale in Oreochromis niloticus?	(15 Marks) .
b) Briefly discuss pond liming.	(4 Marks)
c) List 3 main source of proteins in fish feed.	(6 Marks)
QUESTION 3	
a) Describe mechanical and physical control of emergent plants in	the pond. (12.5 Marks)
b) Explain the influence of temperature for culture of tilapia species	s. (12.5 Marks)
QUESTION 4	
a) Describe water quality related disease common in fish.	(10 Marks)
b) Explain the procedure for fish treatment using injection.	(10 Marks)
c) Explain how to treat viral disease on tilapias.	(5 Marks)
QUESTION 5  Explain in detail the harvesting procedure of fish in ponds.	(25 Marks)
Explain in detail the harvesting procedure of fish in policis.	(23 IVIAI <b>K</b> 5)