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UNIVERSITY OF SWAZILAND

2nd SEM 2012/2013

FINAL EXAMINATION PAPER

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

COURSE CODE: AS 404

TITLE OF PAPER: FISH FARMING

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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CHIEF INVIGILATOR

QUESTION 1

Suppose you have just been employed at the Ministry of Agriculture and Cooperatives, Fisheries Section and you are asked to develop fish farming in the Mazini region:

- a) Which fish species would you farm? Explain based on regional characteristics. (12 marks)
- b) List the main rivers of that region. (6 marks)
- c) Describe subsistence fish farming in Swaziland. (7 marks)

QUESTION 2

Write short notes on:

- a) Function of nostrils in the fish. (5 marks)
- b) Function of lateral line in the fish. (5 marks)
- c) Function of midbrain in the fish. (5 marks)
- d) Osmoregulation of marine fish. (10 marks)

QUESTION 3

- a) Describe the reproduction of *Tilapia rendalli*. (15 marks)
- b) Describe the method of obtaining the supermale in *Oreochromis niloticus*. (10 marks)

QUESTION 4

- a) Discuss the common aquatic plants found in fish ponds. (15 marks)
- b) With reference to water turbidity, explain the meaning of Secchi disc visibility less than 20 cm. (10 marks)

QUESTION 5

Discuss in details the filleting of tilapia. (25 marks)