

2<sup>nd</sup> SEM 2011/2012

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## UNIVERSITY OF SWAZILAND FINAL EXAMINATION PAPER

B.SC AN.SCI YEAR IV, BSC AG.ED YEAR IV, BSC ABE PROGRAMME: YEAR IV, BSC LWM YEAR IV

COURSE CODE: AS 404/APH 405

TITLE OF PAPER: FISH FARMING

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER FOUR (4) QUESTIONS

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

(7.5 points)

### **QUESTION 1**

A) Briefly discuss subsistence fish farming in Swaziland. (10.0 points)

B) Explain the concept, of protogynous hermaphrodite (7.5 points)

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C) Explain the function of the swim bladder in the fish.

# **QUESTION 2**

A) Discuss sex reverse of one of the breeders. (20.0 points)

B) Briefly discuss pond liming. (3.0 points)

C) List the fish **feeding methods** you know. (2.0 point)

### **QUESTION 3**

A) Explain the concept "...tilapia species are thermophylic..." (12.5 points)

B) Explain the meaning of Secchi disc visibility in the pond less than 20 cm. (12.5 points)

### **QUESTION 4**

A) Describe **nutritional diseases** common in fish. (12.5 points)

B) Explain the procedure for flush treatment for fish. (12.5 points)

#### **QUESTION 5**

Fish preservation refers specifically to the processing techniques that are used to keep food from spoiling. Explain in detail the **smoking fish methods**. (25.0 points)