

1st SEM 2009/2010

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UNIVERSITY OF SWAZILAND SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: YEAR IV

B.SC AG.ED YEAR IV, B.SC LWM YEAR IV & B.SC AN.SCI

COURSE CODE:

APH 405

TITLE OF PAPER: FISH FARMING

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER FOUR (4) QUESTIONS

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QUESTION 1

For fish farming, we should understand the fish physiology.

A) Explain the concept, counter-current diffusion system (12.5 points)

B) Explain the osmoregulation mechanisms in fresh water species (12.5 points)

QUESTION 2

A) Explain in details the reproduction of tilapia species (genus *Oreochromis*). (25.0 points)

QUESTION 3

Fish nutrition. Write short notes on:

A) Pond liming	(8.0 points)
B) Animal protein sources for fish feed	(9.0 points)
C) Mineral requirements for fish	(8.0 points)

QUESTION 4

Pond management and fish environment. Write short notes on:

A) Fish kills	(8.0 points)
B) Animal damage of the ponds	(8.0 points)
C) pH tolerance for Oreochromis niloticus	(9.0 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).