



UNIVERSITY OF SWAZILAND

2nd SEM 2013/2014

SUPPLEMENTARY EXAMINATION PAPER

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

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

QUESTION 1

- a) Describe the **protogynous hermaphrodite** behaviour of groupers. (15 Marks)
- b) Describe soil testing for pond construction. (10 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 *Oreochromis niloticus*. (15 Marks)
- b) Discuss lipid requirements and function on fish diets. (10 Marks)

QUESTION 4

- a) Discuss the methods to Seal fish leaking 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)