

UNIVERSITY OF SWAZILAND

2ND SEM.2012/2013

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME:

B.SC. ANIMAL SCIENCE YEAR 4,

AGRICULTURAL

EXTENTION

EDUCATION YEAR 4

COURSE CODE:

AS 403

TITLE OF PAPER:

DAIRY PRODUCTION AND TECHNOLOGY

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTION:

ANSWER ANY FOUR QUESTIONS

THIS PAPER SHOULD NOT BE OPENED UNTIL THE CHIEF INVIGILATOR HAS GRANTED PERMISSION.

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)