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UNIVERSITY OF SWAZILAND

2ND SEM. 2016/2017

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: B.Sc. AGRICULTURAL EDUCATION YEAR 4

B.Sc. ANIMAL SCIENCE YEAR 4

B.Sc. AGRICULTURAL & BIOSYSTEMS ENGINEERING YEAR 4

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) Draw and label a fish.

(15 marks)

(b) Discuss osmoregulation of freshwater and saltwater fish.

(10 marks)

QUESTION 2

Discuss two basic laws that have an ecological impact on our ability to grow plants and animals in a pond.

(25 Marks)

QUESTION 3

(a) Discuss how you can effectively manage a 1.2 hectare plot with 3 ponds. **(15 Marks)**

(b) Briefly discuss 2 key parameters that determine the levels of production and their success in fish farming.

(10 Marks)

QUESTION 4

Discuss protein sources in fish diets and in each case mention their contribution to the diet.

(25 Marks)

QUESTION 5

Discuss the harvesting procedure of fish in ponds.

(25 marks)