



Page 1 of 2

UNIVERSITY OF SWAZILAND

2<sup>nd</sup> SEM 2012/2013

FINAL EXAMINATION PAPER

PROGRAMME: B.Sc. AG. ED. YEAR IV, BSC A.E.E. YEAR IV, BSC 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) Discuss the contribution of the different milk producing species for the world milk production and consumption. (16 marks)
- b) Mention three major dairy goat breeds of the world and describe three typical characteristics of each breed. (9 marks)

**QUESTION 2**

- a) Compare the components of cow and goat milk based on only two characteristics for each component. (10 marks)
- b) Describe Mammogenesis and explain its stages from fetus to adult cow. (15 marks)

**QUESTION 3**

- a) Describe the main use of casein and whey protein in foods. (13 marks)
- b) Describe specific requirement for butter and its manufacture. (12 marks)

**QUESTION 4**

- a) Explain and illustrate any three main components of milk. (15 marks)
- b) Outline the process to make cultured butter milk. (10 marks)

**QUESTION 5**

With the help of a flowchart, outline the manufacture of set and stirred yoghurt. (25 marks)