

2ND SEM. 2015/16

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME :

BACHELOR OF SCIENCE IN FOOD SCIENCE,

NUTRITION AND TECHNOLOGY, YEAR III

COURSE CODE

FSNT 306

TITLE OF PAPER:

FOOD PROCESSING I

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS :

ANSWER QUESTION ONE (1) AND

ANY OTHER TWO (2) QUESTIONS

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

PAGE 2 OF 3

FSNT 306 (M)

QUESTION 1(COMPULSORY)

- (a) Discuss the factors that have led to the growth and development and, that continue to fuel growth in the Food Industry. (20 Marks)
- (b) Suggest ways in which small scale commercial processors in Swaziland can participate and be fully integrated into global food trade/business. (20 Marks)

[TOTAL MARKS = 40]

QUESTION 2

(a) Define the following terms and explain their significance/importance in Food Processing applications. Illustrate with appropriate examples:

1.1	appropriate examples:	
i)	Process Flow Diagram	
ii)	Supply Chain	(8 Marks)
iii)	Value-added product	(6 Marks)
iv)	Specification Sheet.	(4Marks)
v)		(6 Marks)
	Food Product Development	(6 Marks)
		[TOTAL MARKS = 30]

QUESTION 3

- (a) Foods, processed and unprocessed will undergo physical, biochemical or microbiological changes that will result in the lowering of quality or in the loss of safety. Identify and describe two (2) types of changes that commonly occur per category, how they can be controlled. Use appropriate examples to illustrate your answer. (16 Marks)
- (b) Moisture removal and desired Water Activity (Aw) in foods is achieved by using different techniques. Identify and describe four (4) of these techniques and explain how each is done to achieve the desired state in the food. (14 Marks)

[TOTAL MARKS = 30]

PAGE 3 OF 3

FSNT 306 (M)

QUESTION 4

(a) Explain the key steps and the main points to considerd to ensure quality and safe processing of the following foods. Give two examples of processed products for each.

1)	Pork (Fresh and Processed)	processed products for each.
ii)	Fish or any sea food	(6 Marks)
iii)	Chicken or poultry	(6 Marks)
iv)	Vegetables	(6 marks)
v)	Eggs	(6 Marks)
		(6 Marks)

[TOTAL MARKS = 30]