

1ST SEM. 2007/2008

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME

BACHELOR OF SCIENCE IN

FOOD SCIENCE, NUTRITION AND

TECHNOLOGY YEAR II

COURSE CODE

FSNT 202

TITLE OF PAPER

FOOD QUALITY ASSURANCE AND

CONTROL

TIME ALLOWED

TWO (2) HOURS

INSTRUCTIONS

ANSWER QUESTION ONE (1)

AND ANY OTHER (2) QUESTIONS

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Question 1

(a) Describe the intrinsic and extrinsic quality attributes of food that affect consumer expectations and perception.

[10 marks]

(b) Compare and contrast an 'organisation with a quality assurance programme' and 'an organisation without a quality assurance programme' with regards to the production of high quality and safe products.

[10 marks]

(c) Write a brief explanation of the main features (practices) of the Good Manufacturing Practices (GMPs).

[10 marks]

(d) The HACCP system has seven (7) principles used to identify specific hazards and preventive measures for their control. Choose any two principles and explain their function in the HACCP plan.

[10 marks]

[Total Marks = 40]

Question 2

a) Define food quality.

[5 marks]

b) Write a brief explanation of the main objectives of quality control.

[5 marks]

c) Explain the differences between common and specific causes of variation.

[5 marks]

d) With the aid labelled diagrams, describe the ideal location of the quality assurance department or section in a typical organisation.

[5 marks]

e) Write a brief explanation of the main objectives of quality control.

[5 marks]

f) Explain the differences between common and specific causes of variation.

[5 marks]

[Total Marks = 30]

Question 3

a) Write notes on the effectiveness of the following quality control methods:			
	i. Spot checks	[5 marks]	
	ii. 100 % inspection	[5 marks]	
b) Explain the following terms used in acceptance sampling:			
	i. Producer's risk (α)	[5 marks]	
	ii. Consumer's risk (B)	[5 marks]	
c) Explain the following quality aspects:			
	i. product based quality	[5 marks]	
	ii. user-based quality	[5 marks]	
		[Total Marks = 30]	
Question 4			
a)	Explain the importance of sample size (n) and acceptance level (c) in the design of acceptance sampling plans. [5 marks]		
b)	Explain the purpose of quality audits.	[5 marks]	
c)	Give three factors which form the basis (essence) of the ISO quality system.		[3

e) With the aid of suitable diagrams, explain the following quality costs:

d) Give two reasons for conducting quality audit.

i. Appraisal costs. [5 marks]

ii. Failure costs. [5 marks]

iii. Prevention costs. [5 marks]

[Total Marks = 30]

[2 marks]

END OF QUESTION PAPER