

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME

BACHELOR OF SCIENCE IN FOOD

SCIENCE, NUTRITION AND TECHNOLOGY

YEAR III

COURSE CODE

: FSNT 202

TITLE OF PAPER

FOOD QUALITY ASSURANCE & CONTROL

TIME ALLOWED

TWO (2) HOURS

INSTRUCTIONS

ANSWER QUESTION ONE (1) AND ANY

OTHER TWO (2) QUESTIONS

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Question 1

- (a) Explain the importance of 'establishing documentation and record keeping' in the HACCP Plan. [10 marks]
- (b) In the HACCP Plan, it is important to 'understand and know the product'. Explain this statement. [10 marks]
- (c) Explain why it is important to 'establish target levels and critical limits' (HACCP Principle 2) in the HACCP Plan. [5 marks]
- (d) List 5 main features (practices) of the Good Manufacturing Practices (GMPs). [5 marks]
- (e) 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 products. [10 marks]

[Total Marks = 40]

Question 2

a) Explain the statement, 'food quality'.

[5 marks]

b) List 5 objectives of quality control.

[5 marks]

- c) Describe the differences between the 'common' and 'specific causes' of variation.

 [5 marks]
- d) Explain the function of the 'decision tree' used in the HACCP Plan. [5 marks]
- e) Explain the function of the 'cause and effect diagram', also known as the 'fishbone diagram'. [5 marks]
- f) Explain the standard for quality called 'company or voluntary label'. [5 marks]

[Total Marks = 30]

Question 3

a)	Write notes	on the	following	inspection	methods:
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i. Spot checks.

[5 marks]

ii. 100 % inspection.

[5 marks]

b) Explain the following sampling plans:

i. Multiple sampling.

[5 marks]

ii. Sequential sampling.

[5 marks]

c) Explain the following quality aspects:

i. manufacturing-based quality.

[8 marks]

ii. user-based quality.

[2 marks]

[Total Marks = 30]

Question 4

a) Describe the function of a typical 'acceptance sampling plan'.

[7 marks]

b) List 5 challenges associated with the development and implementation of the HACCP Plan. [5 marks]

c) Give 3 factors which form the basis (essence) of the ISO quality system.

[3 marks]

d) Explain the following quality costs:

i. Appraisal costs.

[5 marks]

ii. Failure costs.

[5 marks]

iii. Prevention costs.

[5 marks]

[Total Marks = 30]

END OF QUESTION PAPER