

2ND SEM. 2010/2011

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME

BACHELOR OF SCIENCE IN FOOD

SCIENCE, NUTRITION AND

TECHNOLOGY YEAR III

COURSE CODE

FSNT 304

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 [COMPULSORY]

- a) Discuss HACCP and its development in the food industry under the following:
 - i. History of HACCP

[10 Marks]

- ii. Two food items in which HACCP system is compulsory and the agency regulating each food item in the USA. [4 Marks]
- iii. HACCP certification.

[6 Marks]

b) Describe the four quality assurance steps within the PDCA model

[12 Marks]

c) Differentiate between TQM and SSOPs.

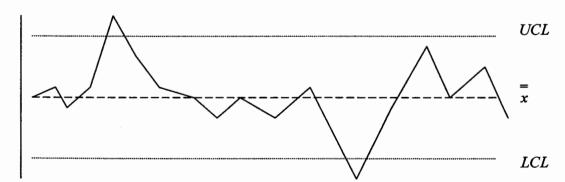
[8 Marks]

[40 Marks]

QUESTION 2

- a) Draw a flow diagram for bread, and identify the critical control points.

 [20 Marks]
- b) Interpret the meaning of the following control chart:



[10 Marks]

[30 Marks]

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QUESTION 3

- a) Explain the significance of ISO 9001 certification [5 Marks]
- b) Discuss the importance of documentation and traceability in a food industry.

[12 Marks]

 Name the three classification of hazards, giving two examples in each classification

[9 Marks]

d) Give two ways of performing corrective actions in the HACCP system [4 Marks]

[30 Marks]

QUESTION 4

- a) Discuss the Current GMP practice under the following headings:
 - i. Sanitary facilities and controls
 - ii. Sanitary operations

[20 Marks]

b) Describe the 5 principles of environmental management system (ISO 14000 series).

[10 Marks]

[30 Marks]