

2<sup>nd</sup> SEM. 2016/17

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME

: 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 TWO (2)

QUESTIONS.

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# **QUESTION 1 (COMPULSORY)**

- Draw the Cause and effect diagram and explain its meaning in food quality. a)
- Explain the four (4) quality assurance steps within the PDCA model. (10 Marks) b)
- c) Discuss the following elements of ISO 9001:-

(8 Marks)

- i. Process control
- ii. Inspection and testing
- iii. Control of non-conforming quality products
- iv. Internal quality audits
- What is traceability in food processing? d)

(20 Marks)

(2 Marks)

[TOTAL MARKS = 40]

## **QUESTION 2**

- Discuss the GMP conditions under the following:a)
  - i. Personnel
  - ii. Plant and Grounds
  - iii. Sanitary facilities and controls

(15 Marks)

- Give a justification of why companies need a TQM system. b)
- Discuss the history of HACCP. c)

(5 Marks)

(10 Marks)

[TOTAL MARKS = 30]

### **QUESTION 3**

Explain the five (5) principles of ISO 14000 essentials. a)

(15 Marks)

Discuss the first and the fifth principle of HACCP giving examples in each b)

(15 Marks)

[TOTAL MARKS = 30]

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## **QUESTION 4**

Discuss the role of the following in relation to food standards: a) i. FDA

(5 Marks)

ii. USDA

(5 Marks)

Discuss in detail how ISO 22000 differ from ISO 9001. b)

(10 Marks)

Justify the importance of PRPs and give 4 examples of PRPs. c)

(5 Marks)

Explain one (1) intrinsic factor of food quality, supporting your answer using d) examples.

(5 Marks)

[TOTAL MARKS = 30]