

2<sup>nd</sup> SEM. 2017/18

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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.

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

### **QUESTION 1 (COMPULSORY)**

(a) Draw the Cause and effect diagram and explain its meaning in food quality.

(10 Marks)

(b) Explain the four (4) quality assurance steps within the PDCA model.

(8 Marks)

(c) Discuss the following principles of ISO 9001:-

- i. Customer focus
- ii. Leadership
- iii. Improvement
- iv. Relationship management

(d) What is traceability in food processing?

(20 Marks)

(2 Marks)

[TOTAL MARKS = 40]

### **QUESTION 2**

(a) Discuss the GMP conditions under the following:-

- i. Personnel
- ii. Plant and Grounds
- iii. Sanitary facilities and controls

(15 Marks)

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

(5 Marks)

(10 Marks)

[TOTAL MARKS = 30]

#### **QUESTION 3**

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

(15 Marks)

(b) Discuss the <u>first</u> and the <u>fifth</u> principle of HACCP giving examples in each case.

(15 Marks)

[TOTAL MARKS = 30]

## **QUESTION 4**

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

  ii. USDA

  (5 Marks)

  (5 Marks)
- (b) Discuss in detail how ISO 22000 differ from ISO 9001.

(10 Marks)

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

(5 Marks)

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

(5 Marks)

[TOTAL MARKS = 30]