1nd SEM. 2017/18

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME	:	FOOD SCIENCE, NUTRITION AND TECHNOLOGY, CONSUMER SCIENCE AND CONSUMER SCIENCE EDUCATION YEAR IV
COURSE CODE	:	FSNT402
TITLE OF PAPER	:	FOOD SAFETY AND PUBLIC HEALTH
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) Explain the following terms:

i. Infection
ii. Toxins
iii. Foodborne outbreak
iv. Food safety
v. Product recall

(20 Marks)

b) A foodborne illness can occur as a result of time-temperature abuse. Explain the meaning of time-temperature abuse and give **three (3)** examples of how food can be time-temperature abused.

(10 Marks)

c) Discuss the role of CDC (USA) in food safety and public health. Name **one (1)** organization in Swaziland with a similar role to CDC.

(10 Marks)

[TOTAL MARKS = 40]

QUESTION 2

a) Discuss why Swaziland is challenged on food safety issues.

(10 Marks)

b) In your opinion, is there a major difference between foodborne disease outbreaks in developed countries and developing countries?

(10 Marks)

c) Discuss in detail **two (2)** ways in which you can prevent the occurrence of foodborne illness.

(10 Marks)

[TOTAL MARKS = 30]

QUESTION 3

a) Discuss the 2nd and the 5th principle of HACCP.

(20 Marks)

b) You have been tasked to teach employees of a food establishment on personal hygiene. Describe using examples **two (2)** human illnesses that may be transmitted through food.

(10 Marks)

[TOTAL MARKS = 30]

QUESTION 4

a) Explain the importance of investigating a foodborne disease outbreak. Also give **four (4)** sources for detecting outbreaks.

(25 Marks)

b) For each of the following pathogens, give **one (1)** example of possible sources of contamination.

i. *Salmonella*
ii. *Listeria monocytogenes*
iii. *Escherichia coli* O157:H7
iv. Norovirus
v. *Toxoplasma gondii*

(5 Marks)

[TOTAL MARKS = 30]