

1ST SEM. 2018/19

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND

RE-SIT / SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME

FOOD SCIENCE, NUTRITION AND

TECHNOLOGY, CONSUMER

SCIENCE AND CONSUMER SCIENCE

EDUCATION YEAR IV

COURSE CODE

FNS403 / 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

PAGE 2 OF 3 FNS403 / FSNT402 (R/S)

QUESTION 1 (COMPULSORY)

a)	Explain	the	fol	lowing	terms:
----	---------	-----	-----	--------	--------

- i. Infection
- ii. Bacteria
- iii. Ready-to-eat food
- 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) State the major pathogen likely to contaminate the following foods:

i. Eggs

vi. Fruits and vegetables

ii. Chicken

vii. Oysters

iii. Ground beef

viii. Raw cheese

iv. Cold meat

ix. Cooked rice

v. Ready-to-eat salad

x. Oxtail stew

(10 Marks)

[TOTAL MARKS = 40]

QUESTION 2

a) In your opinion, is there a major difference between foodborne disease outbreaks in developed countries and developing countries? Discuss in details citing examples where appropriate.

(20 Marks)

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

(10 Marks)

[TOTAL MARKS = 30]

PAGE 3 OF 3 FNS403 / FSNT402 (R/S)

QUESTION 3

a) Discuss the 1st and the 5th principle of HACCP.

(20 Marks)

b) You have been tasked to teach employees of a food establishment on personal hygiene. Discuss a sick worker as it relates to a food handler using examples of human illnesses that may be transmitted through food.

(10 Marks)

[TOTAL MARKS = 30]

QUESTION 4

a) Give four (4) sources for detecting outbreaks.

(4 Marks)

b) Discuss the three (3) hazard types giving two (2) examples for each type.

(15 Marks)

c) A newly established food restaurant is interested in developing a food safety program. As a food safety specialist, discuss using three (3) points why this restaurant will benefit from establishing a HACCP system as part of their food safety program?

(6 Marks)

d) Discuss the role of US CDC. Also name one organisation in Eswatini that performs similar role as US CDC.

(5 Marks)

[TOTAL MARKS = 30]