

UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

DIPLOMA IN ENVIRONMENTAL HEALTH

SUPPLEMENTARY EXAMINATION PAPER 2011

TITLE OF PAPER : INTRODUCTION TO FOOD MICROBIOLOGY

COURSE CODE : EHS 312

DURATION : 2 HOURS

MARKS : 100

INSTRUCTIONS : ANSWER ALL FOUR QUESTIONS.

: EACH QUESTION CARRIES 25 MARKS.

: WRITE NEATLY

: BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER.

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR.

Question 1

Discus listeriosis under the following headings;

- a) Describe the causative agent (5)
- b) Conditions of growth and transmission (6)
- c) Human symptoms (6)
- d) Control methods (8)

[25 Marks]

Question 2

- a) Discuss the problems of mycotoxins in food with emphasis on aflatoxins. (15)
- b) With appropriate examples, explain food spoilage by molds. (10)

[25 Marks]

Question 3

- a) Which three microorganisms are likely to attack sea foods and why? (6)
- b) Write short notes on *Compylobacter jejuni* (6)
- c) You bought a loaf of bread from the Spar supermarket and during slicing; you observe string-like structures.
 - i) What is this condition? (2)
 - ii) How does it occur? (3)
 - iii) How to prevent it? (3)

[25Marks]

Question 4

Discus the survival and growth, food transmission, human symptoms and control of *Escherichia coli* with emphasis on *E.coli* 0157:H7 strain

[25 Marks]