



UNIVERSITY OF SWAZILAND  
Faculty of Health Sciences  
Department of Environmental Health Science

DEGREE IN ENVIRONMENTAL HEALTH SCIENCE

FINAL EXAMINATION PAPER 2018

TITLE OF PAPER : FOOD QUALITY CONTROL  
COURSE CODE : EHM 408  
DURATION : 2 HOURS  
MARKS : 100

INSTRUCTIONS :

- : READ THE QUESTIONS & INSTRUCTIONS CAREFULLY
- : ANSWER QUESTION ONE AND ANY OTHER THREE QUESTIONS.
- : EACH QUESTION CARRIES 25 MARKS.
- : WRITE NEATLY & CLEARLY
- :
- : BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER.

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

### QUESTION ONE

Write short notes on any five (5) pre-requisite programmes for Hazard Analysis Critical Control Point (HACCP) listed below.

- (i) Product recall and traceability programme,
- (ii) Staff and product flow,
- (iii) Sanitation Standard Operating Procedures (SSOP),
- (iv) Refuse or waste control programme,
- (v) Chemical Control,
- (vi) Pest control programme,
- (vii) Relevant records,

[Total: 25 Marks]

### QUESTION TWO

- (a) Discuss why a food safety management system is described as being preventive, systematic and structured. [3 Marks]
- (b) Illustrate how Critical Control Points limits (CCP) are set during HACCP with reference to one food product. [10 Marks]
- (c) Illustrate how Hazards Analysis Spreadsheets are filled out. Use examples from two different food products. [12 marks]

[Total: 25 marks]

### QUESTION THREE

- (a) Discuss different forms of modified atmosphere packaging and its effects in food safety. [25 Marks]

[Total: 25 Marks]

### QUESTION FOUR

- (a) Broadly discuss an example of joint FAO/WHO collective International Food Standards and Quality assurance commission with respect to its objectives, role and general content. [20 Marks]
- (b) What aspects would you look at when choosing construction materials in food industry? [5 Marks]

[Total: 25 marks]

### QUESTION FIVE

- (a) Differentiate between the principles behind ISO 10011 and ISO 19011. [8 Marks]
- (b) Briefly discuss ISO 9000 Quality Management and Quality Assurance Standard. [8 marks]
- (c) What are the broad and specific objectives of auditing? [9 Marks]

[Total: 25 Marks]