



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

DEGREE IN ENVIRONMENTAL HEALTH SCIENCE

FINAL EXAMINATION PAPER 2020

TITLE OF PAPER : FOOD QUALITY CONTROL
COURSE CODE : EHS 424
DURATION : 2 HOURS
MARKS : 100

INSTRUCTIONS : READ THE QUESTIONS & INSTRUCTIONS CAREFULLY
: ANSWER **ANY FOUR** 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

- (a) Write short notes on any five (5) pre-requisite programmes for Hazard Analysis Critical Control Point (HACCP) plan 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) Personnel hygiene programme,
 - (vi) Relevant training programmes,
 - (vii) Relevant records,
 - (viii) Good manufacturing programme

[Total: 25 Marks]

QUESTION TWO

- (a) Discuss how you can establish HACCP plan in a food processing plant. [13 Marks]
- (b) Illustrate how you can go about establishing critical limits using specified example. [8 marks]
- (c) Briefly elaborate on why a success HACCP plan depends upon the design and performance of facilities and equipment. [4 Marks]

[Total: 25 marks]

QUESTION THREE

- (a) Briefly discuss the main structural components of Food Standards. [5 Marks]
- (b) Describe the contents of the volumes under Codex Alimentarius standards that any company dealing in milk and milk products must always adhere to. [12 Marks]
- (c) Discuss the advantages of vacuum packaging. [8 Marks]

[Total: 25 Marks]

QUESTION FOUR

- (a) Briefly elaborate on the meaning of the following concepts.
- (i) Quality systems,
 - (ii) Quality management,
 - (iii) Quality assurance,
 - (iv) Quality control,
 - (v) Total quality management. [15 Marks]
- (b) 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. [10 Marks]

[Total: 25 marks]

QUESTION FIVE

- (a) How would you differentiate between broad and specific objectives of audit? [10 Marks]
- (b) Differentiate between the principles behind ISO 10011 and ISO 19011. [9 Marks]
- (c) List down the responsibilities of auditors. [6 Marks]

[Total: 25 Marks]