

2nd SEM. 2018/19

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UNIVERSITY OF ESWATINI

MAIN EXAMINATION PAPER

PROGRAMME

BACHELOR OF SCIENCE IN FOOD

SCIENCE, NUTRITION AND TECHNOLOGY YEAR IV

COURSE CODE

FNS402

TITLE OF PAPER

FOOD QUALITY ASSURANCE AND

CONTROL

TIME ALLOWED

TWO (2) HOURS

INSTRUCTIONS

ANSWER QUESTION ONE (1)

AND ANY OTHER TWO (2)

QUESTIONS

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QUESTION 1 (COMPULSORY)

(a) Draw the Cause and Effect diagram and explain its meaning in food quality.

(b) Explain the four (4) quality assurance steps within the PDCA model.

(c) Define the following terms:

(8 Marks)

- i. Food Quality
- ii. Quality Control
- iii. Quality Assurance

(9 Marks)

(d) Name the three (3) types of standardization offered by SWASA.

(3 Marks)

(e) Discuss the role of FDA and USDA in relation to food standards.

(10 Marks)

[TOTAL MARKS = 40]

QUESTION 2

(a) Discuss the three (3) extrinsic and three (3) intrinsic attributes that affect food quality. Support your answers using examples.

(30 Marks)

QUESTION 3

(a) Discuss the purpose of control charts in food production. Use examples to illustrate how the control charts are used.

(15 Marks)

(b) Briefly explain the following terms:

- i. Certification
- ii. Auditing
- iii. Non-conformances

(15 Marks)

[TOTAL MARKS = 30]

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QUESTION 4

(a) Discuss traceability in food processing and why it is important, stating examples where necessary.

(5 Marks)

(b) Justify why companies need a TQM system.

(5 Marks)

- (c) Discuss the GMP conditions under the following:
 - i. Personnel
 - ii. Plant and Grounds
 - iii. Sanitary facilities and controls

(15 Marks)

(d) Discuss the <u>fifth</u> principle of HACCP giving examples where appropriate.

(5 Marks)

[TOTAL MARKS = 30]