

2ND SEM. 2017/2018

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME

BACHELOR OF SCIENCE IN FOOD

SCIENCE, NUTRITION AND TECHNOLOGY, CONSUMER SCIENCE, CONSUMER SCIENCE

EDUCATION YEAR III

COURSE CODE

FSNT 308

TITLE OF PAPER

FOOD PRESERVATION

TIME ALLOWED

TWO (2) HOURS

INSTRUCTIONS

ANSWER QUESTION ONE (1)

AND ANY OTHER (2) QUESTIONS

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QUESTION 1 [COMPULSORY]

(a) Define the following terms: -

(10 Marks)

- Food preservation [3 Marks]
- ii. Pasteurization [4 Marks]
- iii. Gamma radiation [3 Marks]
- (b) Give four (4) examples of chemical additives that could be used in food preservation.
- (c) Explain the difference between MAP and CAP.

(2 Marks)

(10 Marks)

(d) Discuss UHT processing and Aseptic packaging in thermal preservation.

(10 Marks)

(e) Describe the four (4) advantages of fermenting foods.

(8 Marks)

[Total = 40 Marks]

QUESTION 2

(a) Discuss the four (4) techniques that can be used in proper food handling before processing.

(20 Marks)

- (b) Discuss the concerns/issues related to the following methods of preservation:
 - i. Refrigeration
 - ii. Freezing

(10 Marks)

[TOTAL = 30 Marks]

QUESTION 3

(a) Discuss the importance of food preservation (use 5 points)

(10 Marks)

- (b) It is estimated that about one-third losses occur through the food chain. Explain using 5 points why these losses occur.
- (c) Discuss five (5) conditions for spoilage.

(10 Marks)

(10 Marks)

[TOTAL = 30 Marks]

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QUESTION 4

Describe the **three** (3) types of preservation techniques used in your term project, stating the principle applied in each case. Among the techniques used, which method was the best and why?

(30 Marks)

[TOTAL = 30 Marks]