

1ST SEM. 2018/2019

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UNIVERSITY OF ESWATINI

RE-SIT / SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME

BACHELOR OF SCIENCE IN FOOD

SCIENCE, NUTRITION AND TECHNOLOGY, CONSUMER SCIENCE, CONSUMER SCIENCE

EDUCATION YEAR IV

COURSE CODE

FNS405

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) Discuss the three (3) types of freezing used in preservation of foods.

(b) Describe the four (4) methods of evaporation of foods.

(12 Marks)

(8 Marks)

(c) Explain the difference between MAP and CAP.

(10 Marks)

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

(10 Marks)

[TOTAL = 40 Marks]

QUESTION 2

(a) Discuss the following techniques in thermal processing: -

ii) Pasteurization

iii) Commercial sterilization

(10 Marks)

(b) Discuss three (3) functions of starter cultures.

(9 Marks)

(c) Explain three (3) points to consider in storage of dried foods.

(d) Discuss two (2) benefits of blanching fruits and vegetables.

(6 Marks)

(5 Marks)

[TOTAL = 30 Marks]

QUESTION 3

(a) Explain the process of canning and list **three** (3) reasons that might lead to spoilage of canned foods.

(b) Discuss the five (5) conditions for spoilage.

(10 Marks)

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

(10 Marks)

(10 Marks)

[TOTAL = 30 Marks]

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QUESTION 4

(a) Explain the four (4) types of drying techniques that could be utilized in the preservation of food.

(20 Marks)

(b) Describe the three (3) characteristics of a good starter culture in the fermentation process.

(6 Marks)

(c) Explain how low temperature is applicable in food preservation.

(4 Marks)

[TOTAL = 30 Marks]