

2<sup>ND</sup> SEM. 2009/2010

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## UNIVERSITY OF SWAZILAND

## FINAL EXAMINATION PAPER

**PROGRAMME** 

BACHELOR OF SCIENCE IN FOOD

SCIENCE, NUTRITION AND TECHNOLOGY YEAR III

**COURSE CODE** 

**FSNT 306** 

TITLE OF PAPER

**FOOD PROCESSING** 

TIME ALLOWED :

TWO (2) HOURS

INSTRUCTIONS

**ANSWER QUESTION ONE (1)** 

AND ANY OTHER (2) QUESTIONS

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## QUESTION 1 [COMPULSORY]

a) Discuss four reasons why food is processed.

[12 marks]

b) Explain the steps in yoghurt manufacture.

[12 marks]

c) Discuss <u>three</u> quality defects that may occur during yoghurt manufacture and give possible reasons for the defects [9 Marks]

d) Explain how sausages are manufactured, stating the kind of equipment that is used for their manufacture. [7 Marks]

[Total = 40 marks]

#### **QUESTION 2**

a) Explain the **four** major sources of milk contamination.

[16 marks]

b) Discuss Pasteurization and Ultra High Temperature (UHT) treatment.

[10 Marks]

c) Discuss two factors that may lead to milk variation.

[4 Marks]

[Total = 30 marks]

## **QUESTION 3**

- a) Explain the following processing methods of grains
  - i. Wheat milling
  - ii. Maize milling
  - iii. Wet milling
  - iv. Rice milling

[20 marks]

- b) Define fruits and vegetables from the perspective of a Food Scientist and that of a Botanist.
  [5 marks]
- c) Explain the nutritional composition of fruits and vegetables.

[5 Marks]

TAXA.

[Total = 30 marks]

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# **QUESTION 4**

a) Discuss blanching and its role in food processing. [ 4 Marks]

b) Discuss the **four** main ingredients that are used in bread making. [12 Marks]

c) Discuss <u>four</u> ingredients used in sausage making. [8 Marks]

d) Explain three quality defects that might take place in butter making. [6 Marks]

[Total = 30 marks]