

2<sup>ND</sup> SEM. 2006/2007

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME** 

**BACHELOR OF SCIENCE IN HOME** 

ECONOMICS [FOOD SCIENCE AND

TECHNOLOGY OPTION] YEAR V

**COURSE CODE** 

**FST 512** 

:

TITLE OF PAPER

**FOOD PROCESSING II** 

TIME ALLOWED

TWO (2) HOURS

**INSTRUCTIONS** 

**ANSWER QUESTION ONE (1)** 

AND ANY OTHER (2) QUESTIONS

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# **QUESTION 1 [COMPULSORY]**

a. What factors affect the melting point of fats?

[6 marks]

- b. Give the difference between the terms 'pol' and 'brix' in sugar manufacturing terminology.

  [6 marks]
- Discuss the differences between fermentation as it refers to tea, coffee and wine processing.
   [10 marks]
- d. Discuss the importance of water quality in the manufacture of carbonated beverages.

  [6 marks]
- e. Discuss the processing procedures for making shortening.

[12 marks]

[Total Marks = 40]

#### **QUESTION 2**

The melting point of fats and oils can be modified through hydrogenation or winterization. Discuss the two methods giving their advantages and disadvantages from a functional and nutritional points of view.

[30 marks]

## **QUESTION 3**

As a processor, how would you maximize sugar yield from sugarcane supplied by medium scale farmers? [30 marks]

## **QUESTION 4**

Fruit juices and imitation juices (flavoured drinks) play an important role in the economy and wellbeing of the people Swaziland. Discuss this statement from your own experience and observations.

[30 marks]

#### **QUESTION 5**

- a. Herbs and spices are used for their flavour modification properties. Discuss some of the problems that might be encountered in their use. [12 marks]
- b. Discuss the processing principles of making dry wine and sherry wine from red grapes. [18 marks]

[Total = 30 marks]