
CHUKA



UNIVERSITY

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**THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE IN FOOD SCIENCE & TECHNOLOGY**

FOST 343: NON ALCOHOLIC BEVERAGE TECHNOLOGY

STREAMS: BSC (FOST)

TIME: 2 HOURS

DAY/DATE: FRIDAY 07/12/2018

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS: Answer all questions in section A and any other TWO in section B

SECTION A (30 MARKS)

QUESTION ONE

- (a) Briefly describe four types of tea processed in the tea factory. [4 marks]
- (b) Outline five characteristics of non-alcoholic beverages [5 marks]

QUESTION TWO

- (a) Clearly differentiate between cordial and squash [4 marks]
- (b) Outline the importance of fermentation process in coffee and tea processing [4 marks]

QUESTION THREE

- (a) Explain the difference between mineral water and potable water [4 marks]
- (b) State two major pollutants in potable water and their examples [1 mark]

QUESTION FOUR

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- (a) Briefly describe the activities taking place during ditching and conching of cocoa [4 marks]

- (b) Describe various methods of water treatment and their effect in water quality. [4 marks]

SECTION B [40 MARKS]

QUESTION FIVE

- (a) Discuss the production process of chocolate powder from cocoa beans. [15 marks]
- (b) Describe the process production of carbonated water [5 marks]

QUESTION SIX

- (a) Discuss the process production of black tea from harvested tea leaves [10 marks]
- (b) Explain the key ingredients used in the manufacture carbonated drinks and the process [10 marks]

QUESTION SEVEN

- (a) Discuss the production of coffee powder from harvested coffee beans [15 marks]
- (b) Explain five major factors that affect coffee production and utilization in Kenya [5 marks]
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