

### TECHNICAL UNIVERSITY OF MOMBASA

# FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF PURE & APPLIED SCIENCES UNIVERSITY EXAMINATION FOR:

## BACHELOR OF SCIENCE IN FOOD TECHNOLOGY AND QUALITY ASSURANCE

AFS 4308: SUGAR AND CONFECTIONERY TECHNOLOGY

#### END OF SEMESTER EXAMINATION

**SERIES:** APRIL 2016

TIME: 2HOURS

**DATE:**11May2016

#### **Instructions to Candidates**

You should have the following for this examination *-Answer Booklet, examination pass and student ID* 

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

#### **Question ONE**

(a) Define:

(i) Cube Sugar (1mark)(ii) Corn Syrup (1mark)(iii) Molasses (1mark)

(b) (i) Differentiate THREE varieties of flavor used in confectionery (3marks)

					ks) ks)
(c)	e) Describe the following reactions of sugars:				
	(i)	Enzyme hydrolysis	(2marks)		
	(ii)	Caramelization	(2marks)		
	(iii)	Fermentation	(2marks)		
(d)	Briefly	describe how invert sugar is obtain	ined (5marks)		
(e)	(i) Exp	plain the multiple sweetener approa	nch	(3mark	s)
	(ii) Outline THREE advantages of using artificial sweeteners (3marks)				
Questi	on TW	0			
Outline the manufacture of refined cane sugar (20marks)					
Questi	on TH	REE			
(a)	(a) Explain the processing of jaggery (10			narks)	
(b)	(b) Outline the processing of honey			(10marks)	
Questi	on FO	UR			
(a)	Discus	s the crystallization of sugar	(10mark		
(b)	Outlin	e the manufacture of chocolate cor	nfectionery	(10marks)	
Questi	on FIV	Έ			
<ul><li>(a) Discuss FIVE ingredients used in the manufacture of flour confectionery</li><li>(b) Outline the cookie making process</li></ul>					(10marks) (10marks)