

Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF PURE AND APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF TECHNOLOGY IN APPLIED CHEMISTRY

BTAC

AFS 4401: FOOD PROCESSING

SPECIAL/SUPPLEMENTARY EXAMINATION

OCTOBER 2013 SERIES

2 HOURS

Instructions to candidates:

This paper consist of **FIVE** questions
Answer question **ONE** (compulsory) and any other **TWO** questions

Question ONE

a)	State FOPUR contributions of food additives in food processing	(4marks)	
b)	Identify FOUR functions of a food package	(4marks)	
c)	Distinguish between internal and external damage in raw materials	(4marks)	
d)	Highlight four types of spoilage that occur in carried products	(4marks)	
e)	Explain the importance of geometrical properties of food in food processing (4marks)		
f)	Explain the factors that control the rate of heat transfer in dehydration of f	Good (4marks)	
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g) Identify three common ingredients in cured meat products and state their role. (6marks)

Question TWO

By us	of a flowchart outline the processing of the following products	
a)	Pineapple juice ((10marks)
b)	Carried vegetable ((10marks)
Quest	ion THREE	
a)	Explain the term 'cold sterilisation' ((2marks)
b)	Discuss FIVE applications of food irradiation ((15marks)
c)	Explain the limitation in use of irradiation as a preservation method is countries	in developing (3marks)
Quest	ion FOUR	
Descr	be the processing of the following products	
a)	Cheese	(10marks)
b)	Yoghurt	(10marks)
Quest	ion FIVE	
a)	Explain FOUR reasons for heating food (8marks)	
b)	Discuss thermal processing under the following:	
	(i) Blanching ((6marks)
	(ii) Sterilization ((6marks)