

TECHNICAL UNIVERSITY OF MOMBASA

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

DIPLOMA IN FOOD TECHNOLOGY AND QUALITY ASSURANCE

AFS 2101: FOOD MICROBIOLOGY 1

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 2 HOURS

DATE: Sep 2018

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.**

Ouestion ONE

a) I	Jefine	the	toll	owing	terms

	i.	Intrinsic factors	(2marks)
	ii.	Extrinsic factors	(2marks)
	iii.	Optimal growth temperature	(2marks)
	iv.	Favism	(2marks)
	v.	Food spoilage	(2marks)
	vi.	D-Value	(2marks)
b) State Eight causes of disturbances in the gastrointestinal tract resulting from ingestion of food			
			(8marks)
c)	Differ	entiate food poisoning and food infection	(4marks)
d)	State A	ANY Six importance's of microorganisms in food technology	(6marks)

Question TWO

a) Based on temperature, explain Tl	IREE groups of microorganisms	(5marks)
-------------------------------------	-------------------------------	----------

b) State and explain the radiation processing of food products (8marks)

©Technical University of Mombasa

Page **1** of **2**

c)	Explain ANY Two factors that affect the efficiency of antibiotics and disinfectants	(2marks)
Quest	ion THREE	
Discus	ss Staphylococcus food poisoning under the following	
a)	The disease	(4marks)
b)	Foods involved	(4marks)
c)	Conditions necessary for outbreak	(4marks)
d)	Prevention of the outbreak	(3marks)
Quest	ion FOUR	
Discus	ss the following methods used in controlling microbial growth	
a)	Filtration	(2 marks)
b)	High temperatures	
c)	Low temperatures	
d)	Dehydration	
e)	Radiation	(3 marks)
Quest	ion FIVE	
a)	Define the following terms used in radiation	
	i. Radappertization	(2 marks)
	ii. Radicidation	(3 marks)
	iii. Radurization	(3 marks)
b)	Explain ANY Seven primary sources of microorganisms	(7marks)