

UNIVERSITY OF SWAZILAND Faculty of Health Sciences Department of Environmental Health Science

DEGREE IN ENVIRONMENTAL HEALTH SCIENCE

SUPPLEMENTARY EXAMINATION PAPER 2018

TITLE OF PAPER

FOOD HYGIENE & PRESERVATION

COURSE CODE

EHM 309

DURATION

2 HOURS

MARKS

100

INSTRUCTIONS

READ THE QUESTIONS & INSTRUCTIONS

CAREFULLY

: ANSWER ALL FOUR (4) QUESTIONS.

EACH QUESTION <u>CARRIES 25</u> MARKS.

: WRITE NEATLY & CLEARLY

NO PAPER SHOULD BE BROUGHT INTO THE

EXAMINATIO ROOM

: BEGIN EACH QUESTION ON A SEPARATE

SHEET OF PAPER.

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR.

Questi Define	ion 1 the following terms commonly used in relation to food hygiene;	
a)	D-value	[3]
b)	HACCP (write in full)	[2]
c)	Z-value	[3]
d)	Grease trap	[2]
e)	CFU (write in full)	[2]
f)	Haloduric microbes	[2]
g)	Cryogenic freezing	[2]
h)	Quats	[2]
i)	Osmoduric	[2]
j)	High risk foods	[3]
k)	Exotoxins	[2]
		[25 Marks]
Quest a) b)	Spices make food to tasteful and they are a darling in most restaur spices on top of their flavoring properties, also kill gram negative five of such spices. Name five reasons for using chemical preservatives in food.	
c).	In which foods are these food additives added and why?	
	i) Butylated Hydroxynisole[BHA]	[3]
	ii) Nitrate or nitrite	[4]
	iii) Monosodium glutamate[MSG] iv) Sodium diacetate	[2]
		[2]
	,	[2]
	vi) Sodium sorbate	[2] [25 Marks]
Quest	ion 3	
a).	What good use does ultraviolet (UV) irradiation have in the food	
	and what problems does this method have?	[8]
b).	How does (UV) irradiation affect microorganisms in food?	[6]
c).	Discuss the effects of pH on food spoilage.	[4]
d)	You read a label in a supermarket with name pasteurized milk. W	
		[7]
		[25 Marks]

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Ques	stion 4	
a).	How does low or freezing temperature select the type of microorg	ganisms in food
spoil	age?	[7]
b)	Why is it important to blanch vegetables or fruits during canning?	[4]
c)	How do the following conditions affects the canning process?	
	i) pH of the food [2]	
	ii) Foods high in fats [2]	
d)	How does the microwave oven heat food?	[5]
e)	Why is freeze dried foods better than dried foods?	[5]
		[25 Marks]