UNIVERSITY OF SWAZILAND Faculty of Health Sciences

DIPLOMA IN ENVIRONMENTAL HEALTH SUPPLEMENTERY EXAMINATION PAPER 2011

TITLE OF PAPER : FOOD SAFETY & PRESERVATION

COURSE CODE

: EHS 313

DURATION

2 HOURS

MARKS

100

INSTRUCTIONS

READ THE QUESTIONS & INSTRUCTIONS

CAREFULLY

ANSWER ALL FOUR (4) QUESTIONS

EACH QUESTION CARRIES 25 MARKS.

WRITE NEATLY & CLEARLY

BEGIN EACH QUESTION ON A SEPARATE

SHEET OF PAPER.

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

Quest	ion 1	
a. b.	How do prolonged storage, light and heat affects fruits and vegetable. How does food preservation ensure food security?	[5] [10]
C.	Salmonellosis is significantly associated with poultry meat and egg Why is this so?	[10] [25 Marks]
Quest	ion 2	
a) b)	How do the following factors affect the quality of eggs? i. Diet [5] ii. Age [2] iii. Environment [3] iv. Infections [5] How is the egg white different from the yolk?	[5]
c)	How does the pH in foods affects microorganisms?	[5] [25 Marks]
Quest	ion 3	
,	beling of all prepackaged foods to be offered to the consumer or cate conform to the codex general standard for labeling of prepackaged	
	Define the following terms (Date marking on prepackaged food) "Sell by date" "Best before" "Use by date" Why are these dates marked on prepackaged foods?	[2] [2] [2] [2]
b).Wr	ite short notes on the starter cultures used in the manufacture of chee	ese or yogurt. [6]
,	at conditions are necessary for the maillard reaction to occur and give od product where this spoilage commonly occurs in?	
d) In v i) ii) iii) iv)	Monosodium glutamate[MSG]	[2] [2] [2] [1] [25 Marks]

Question 4

There are two ways in which canned or bottled food stuffs may be spoiled, it is either microbiologically or chemically. Distinguish between the two types of caned food spoilage.

a.	microbial spoilage	[10]
b.	chemically spoilage	[15]
		[25 Marks]