

2nd SEM. 2005/2006

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME

DIPLOMA IN HOME ECONOMICS &

HOME ECONOMICS EDUCATION

YEAR III

COURSE CODE

: FN 302

TITLE OF PAPER

FOOD PRESERVATION

TIME ALLOWED :

TWO (2) HOURS

INSTRUCTIONS : ANSWER ALL QUESTIONS

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

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Question 1

a.	Show the benefits and problems of using high temperature compared		
	temperature in food preservation.	[20]	
b.	Is freezing appropriate for juicy fruits and similar vegetables? Why?	[5]	
c.	How do chemicals preserve food?	[5]	
d.	Explain food deterioration and spoilage under the following headings		
	i. chemical activities	[5]	
	ii. physical activities	[5]	
	[Total mark	s 40]	
Question 2			
•	Why is nitrate used in meat products as a preservative even though it	ic	
a.	suspected to be associated with ill health	[10]	
b.	How does traditional sun drying differ from modern solar drying in fo		
υ.	110W does daditional sun drying differ from modern solat drying in R	[5]	
c.	Using appropriate examples explain the purpose of fermentation of fo		
٠.	comig appropriate examples explain the parpose of reminimum of re-	[8]	
d.	What do you understand by food irradiation?	[5]	
e.	What does 'ISO' mean?	[2]	
	[Total marks 30]		
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Question 3			
a.	A Sasox farmer has a bumper harvest this year, he is producing more tom	atoes	
	than the market can afford. What can he do with the tomatoes he can not	sell?	
	Support your answer.	[10]	
b.	Why is food safety very important in food production?	[10]	
c.	Why is Clostridium botulinum of importance in food canning?	[5]	
d.	Citrus fruits only require a temperature of less than 100 °C during canning	g. Why	
	is that so?	[5]	
	[Total marks	s 3 0]	

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Question 4

The rapidly increasing global sourcing of raw materials and distribution of finished products make it imperative that governments cooperate at an international level to provide assurance of food safety. The "HACCP" method has been widely embraced by the food industries and by governments' regulatory agencies because it has proven to be a cost effective means to prevent the occurrence of identifiable food-borne biological, chemical and physical hazards.

To show your understanding of the "HACCP" method as a preventative system, you are required to show all the seven steps and explain how each step is important in the maintenance of good quality food products.

[Total marks 30]