

2010/2011

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME

FOOD SCIENCE NUTRITION AND

TECHNOLOGY

COURSE CODE

FSNT 407/308

TITLE OF PAPER : FOOD PRESERVATION

TIME ALLOWED :

TWO (2) HOURS

INSTRUCTIONS

ANSWER QUESTION ONE

AND ANY OTHER TWO QUESTIONS

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

QUESTION 1 [COMPULSORY]

a)	List the factors influencing food spoilage.				
	i.	Intrinsic factors			
	ii.	Extrinsic factors			
	iii.	Initial condition of product	(12)		
b)	Discuss the following processes in food preservation:				
	i) Curing				
	ii) Pickling				
	iii) MAP		(15)		
c)	c) Explain four major reasons of pre-treating fruits and vegetables before				
	preservation?		(4)		
d)	Describe two methods of thermal preservation of food and give one example fo				
	each method.		(4)		
e)	Explain factors	considered in selecting a suitable preservation method.	(5)		
		Total marks 40			
		Total marks 40			
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		Total marks 40 <u>QUESTION 2</u>			
a)	State three peal	QUESTION 2	rive one		
a)	- ·	QUESTION 2 ing techniques in food processing and preservation and g			
	example of app	QUESTION 2 ing techniques in food processing and preservation and g lication for each.	(6)		
b)	example of app. Discuss advanta	QUESTION 2 ing techniques in food processing and preservation and glication for each. ages and disadvantages of drying in food preservation.	(6) (6)		
	example of app. Discuss advanta Describe two m	QUESTION 2 ing techniques in food processing and preservation and g lication for each.	(6) (6)		
b) c)	example of app. Discuss advanta Describe two m involved.	QUESTION 2 ing techniques in food processing and preservation and glication for each. ages and disadvantages of drying in food preservation. methods of cold storage of food and explain the principles	(6) (6) (6)		
b)	example of app. Discuss advanta Describe two m involved. Explain the con	QUESTION 2 ing techniques in food processing and preservation and glication for each. ages and disadvantages of drying in food preservation. methods of cold storage of food and explain the principles acept of evaporation in food preservation.	(6) (6)		
b) c)	example of app. Discuss advanta Describe two m involved. Explain the con	QUESTION 2 ing techniques in food processing and preservation and glication for each. ages and disadvantages of drying in food preservation. methods of cold storage of food and explain the principles	(6) (6) (6)		

Total marks 30

QUESTION 3

	Total marks 30		
	processing and preservation	(10)	
d)	Define size reduction and discuss three benefits of size reduction in food		
c)	List four technical methods of reducing food deterioration.	(4)	
	food preservation.	(4)	
b)	Describe the reasons why cleaning food should take place at the earliest stage		
	advantages of heat processing.	(12)	
a)	Discuss the preservative effects of thermal processing and describe five main		

QUESTION 4

a) Explain food fermentation and give advantages of this method in food preservation. (10)
 b) Explain the general principles of preserving fruits and vegetables. (8)
 c) Discuss four effects of Ultra-high temperature sterilization on food quality. (12)
 Total marks 30