

2005/2006

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#### UNIVERSITY OF SWAZILAND

#### FINAL EXAMINATION PAPER

**PROGRAMME** 

**DIPLOMA IN HOME ECONOMICS &** 

HOME ECONOMICS EDUCATION

YEAR III

COURSE CODE

: FN 302

TITLE OF PAPER : EXPERIMENTAL FOODS

TIME ALLOWED : TWO (2) HOURS

INSTRUCTIONS : ANSWER ALL QUESTIONS

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## **Question 1**

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a.	due to the action of mainly biological factors. Explain relation to;	
	i. enzymatic action	[10]
	ii. microbial action	[10]
	[Use appropriate examples]	
b.	b. How do the following factors influence the growth of microorganisms in or food?	
	i. temperature	[6]
	ii. oxygen	[5]
	iii. moisture	[5]
c.	Why is the knowledge in acidity value of the food impor	tant in food canning?
		[4] [Total marks 40]
	Question 2	
a.	Using appropriate examples explain how the following food	chemicals preserve
	i. curing salts	[10]
	ii. sugar	[5]
b.	How does dehydration differ from low temperature as	a method of food
	preservation?	[10]
c.	Explain the types of spoilage which are likely to be obtained or bottled products.	
	canned or bottled products.	[5] [Total marks 30]
	Question 3	
a.	i. tomato chutney	[4]
	ii. pickled onion	[4]
	iii. marmalade jam	[5]
b.	How would you test for the setting point in jam making us	ing the flake test? [3]

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	How does food packaging protects food quality?	[5]
d.	Why is freezing not recommended for these products, oranges, and banar	na?
		[4]
e.	'Smoked fish' this label is seen on a packaged fish. How was this food pa	roduct
	preserved?	[5]

[Total marks 30]

# **Question 4**

a.	Why is sodium benzoate added in salad dressing since the pH is low enoutake care of microorganism?	igh to
b.	Vegetables and fruits are required to be blanched before preservation, why so?	y is that [5]
c.	What is food irradiation?	[5]
d.	What is headspace and why is it important in canning and bottling operation?	
		[4]
e.	How is freezing different from refrigeration in food preservation?	
		[5]
f.	What is the function of pectin in sugar preserves?	[3]
g.	In the manufacture of jams, jellies and marmalades, what is the role of the acid?	
		[5]
	[Total marks 30]	