

1ST SEM. 2005/2006

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME

DIPLOMA IN HOME ECONOMICS

EDUCATION AND HOME ECONOMICS YEAR II

COURSE CODE

: FN 201

TITLE OF PAPER

INTRODUCTION TO FOOD SCIENCE

TIME ALLOWED

TWO (2) HOURS

INSTRUCTIONS

ANSWER QUESTION ONE (1)

AND ANY OTHER (3) QUESTIONS

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	QUESTION 1	
Briefl	y explain the following:	
a)	Components of starch in food system	
b)	Syneresis	
c)	Denaturation	
d)	Retrodegradation	
e)	Gelatinization	
f)	Reducing sugars	
g)	Rancidity	
h)	Gluten	
i)	Essential amino acid Food science	
j)	rood science	[Total = 40]
QUESTION 2		
a)	What are the components of food and give examples	[10]
b)	When a peeled banana, apple, and potato are exposed to air, chemi occur. Explain	cal changes [10] [Total = 20]
	QUESTION 3	
a)	Explain as concisely as possible, what happens when you expose a protein such as milk and egg to heat and mention the temperature, taste and the protein involved. [10]	
b)	Enzymes are classified into six categories, name <u>five</u> of these.	[10] [Total = 20]
	QUESTION 4	
a)	Briefly explain the following and give an example of each.	
,	i) Saturated fats	
	ii) Mono saturated fats	
	iii) Poly saturated fats	
	iv) Monosaccharides.	
	v) Polysaccharides.	Total = 201

QUESTION 5

- Explain the effects of the following on starch by giving brief description a)
 - i) Acid
 - Sugar Oil ii)
 - iii)

[10]

b) Describe the process by which a foam is formed when an egg is whisked.

[10] [**Total = 20**]