UNIVERSITY OF ESWATINI Faculty of Health Sciences Department of Environmental Health Science

DEGREE IN ENVIRONMENTAL HEALTH AND FOOD SCIENCE

FINAL EXAMINATION PAPER 2019

TITLE OF PAPER

FOOD CHEMISTRY

COURSE CODE

EHS 321

DURATION

2 HOURS

MARKS

100

INSTRUCTIONS

READ THE QUESTIONS & INSTRUCTIONS

CAREFULLY

:

ANSWER ANY FOUR QUESTIONS.

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EACH QUESTION CARRIES 25 MARKS.

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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.

QUESTION ONE

(a) Define	e the following terms;	
(i)	Peptide bond,	[1 Mark]
(ii)	Denaturation,	[1 Mark]
(iii)	Colloidal,	[1 Mark]
(iv)	Emulsion,	[1 Mark]
(v)	Dispersion,	[1 Mark]
(vi)	Bound water	[1 Mark]
(vii)	Water activity	[1 mark]
(viii)	Water holding capacity	[1 mark]
(ix)	Water binding and hydration	[1 Mark]
(x)	Nutrient standardization	[1 Mark]
(b) Briefly discuss how reducing water activity help preserve foods. [15 marks]		
losses. (b) Discus	rate why vitamin A is very often used as an indicator as the properties of carbohydrates.	[5 marks] [15 Marks] Total [25 Marks] [5 Marks] [5 Marks] clogy [5 Marks] eccenoic and trans 9- fferent molecules, [5 Marks]
QUESTIONS FOUR (a) Briefly discuss the denaturation of proteins. (b) Discuss the factors that can induce protein denaturation? [20 Marks] Total [25 Marks]		

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QUESTIONS FIVE

(a) What is the importance of lipids in foods?

[3 Marks]

(b) Discuss the degradation of lipids.

[22 Marks]

Total [25 Marks]