

UNIVERSITY OF SWAZILAND

Faculty of Health Science

Department of Environmental Health Sciences

Final Examination 2007

TITLE OF PAPER

FOOD CHEMISTRY AND ANALYSIS

COURSE CODE

EHS 511

DURATION

3 HOURS

MARKS

100

INSTRUCTIONS

READ THE QUESTIONS & INSTRUCTIONS

CAREFULLY

:

ANSWER FIVE QUESTIONS

:

EACH QUESTION CARRIES 20 MARKS

:

NO PAPER SHOULD BE BROUGHT INTO NOR OUT

OF THE EXAMINATION ROOM

:

BEGIN EACH QUESTION ON A SEPARATE SHEET

OF PAPER

DO NOT OPEN THE QUESTION PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR.

EHS 511 Final Examination 2006/2007

QUESTION 1

What does the statement 'carbohydrates are watered carbons means'? Explain four reasons why this statement may not be correct (20 Marks)

QUESTION 2

Briefly discuss:

a) Glucosinolates (12 Marks)

b) Saturated fatty acids in foods (8 Marks)

QUESTION 3

Using structures to support your answer, compare and contrast lactose and sucrose found in foods (20 Marks)

QUESTION 4

Using structures to illustrate your answer, briefly describe:

a) Amylose (10 Marks)

b) Triacyl glycerides (10 Marks)

QUESTION 5

Write short notes about:

a) essential amino acids (12 Marks)

b) Essential fatty acids (8 Marks)

QUESTION 6

a) Discuss effect of temperature and pH on enzymic reaction rate? (12 Marks)

b) Write short notes about fat soluble vitamins (8 Marks)