

UNIVERSITY OF SWAZILAND SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME:

BACHELOR OF SCIENCE IN FOOD SCIENCE, NUTRITION AND TECHNOLOGY, CONSUMER SCIENCE AND CONSUMER SCIENCE EDUCATION YEAR II

COURSE CODE:

FNS203

TITILE OF PAPER:

HUMAN NUTRITION

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

ANSWER QUESTION ONE (1) AND ANY OTHER TWO (2) QUESTIONS

QUESTION 1 (COMPULSORY)

(a) Describe the role and deficiency diseases of the following nutrients:

i. Carbohydrates

ii. Protein (10 Marks)

iii. Iodine (10 Marks)

(10 Marks)

(b) Name the essential amino acids that are required by children.

(10 Marks)

[TOTAL MARKS = 40]

QUESTION 2

(a) Discuss the metabolism of glucose in the body

(15 Marks)

(b) Explain the metabolic effects of over-nutrition and under-nutrition.

(15 Marks)

[TOTAL MARKS = 30]

QUESTION 3

(a) Discuss the importance of nutrition on the outcome of pregnancy.

(15 Marks)

(a) Describe the most nutritional considerations for adolescents

(15 Marks)

[TOTAL MARKS = 30]

QUESTION 4

(a) Compare and contrast over-nutrition and under-nutrition.

(20 Marks)

(b) Describe the benefits of breastfeeding for both the infant and the mother.

(10 Marks)

[TOTAL MARKS = 30]