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UNIVERSITY OF SWAZILAND SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME

DIPLOMA IN HOME ECONOMICS

EDUCATION AND HOME ECONOMICS YEAR II

COURSE CODE

: FN 202

TITLE OF PAPER :

BIOCHEMISTRY & NUTRITION

TIME ALLOWED :

TWO (2) HOURS

INSTRUCTIONS

ANSWER QUESTION ONE (1)

AND ANY OTHER (2) QUESTIONS

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Question 1

a) Describe in terms of overall general function the two major pathways of carbohydrate metabolism. [30]

b) Outline the concept of energy content in foods. List the energy values for a gram of carbohydrate, fat, protein and alcohol. [10]

Total = 40 marks

Question 2

a) i) List two types of carbohydrates found in the diet. [2 x 2 = 4] ii) Name three functions of water in the body. [3 x 2 = 6]
b) Describe two types of fats and why the differences are important. [10]
c) Describe the roles of vitamins and minerals in the body. [10]

[Total = 40 marks]

Question 3

Describer how your food preferences have been shaped by the following factors:

- a) Exposure to foods at an early age
- b) Advertising
- c) Peer pressure
- d) Economic factors
- e) Eating out

[Total = 30 marks]

Question 4

- a) Describe the intent of dietary guidelines. Point out one criticism for its general application to all adults.
- b) What <u>three</u> key points should you make when explaining the significance of the RDAs to a friend? $[3 \times 3 = 9]$
- c) i) Explain how RDAs and AI differ from daily values in intention and application.
 - ii) How would you explain the concept of nutrient density to a fourth-grade class? [5]

[Total = 30 marks]