

**UNIVERSITY OF SWAZILAND  
FACULTY OF HEALTH SCIENCES**

**EXAMINATION:**                    **Supplementary Examination**     **May, 2006**

**PROGRAM:**                    **Bachelor of Environmental Health Science IV**

**COURSE:**                        **Food Chemistry**

**COURSE CODE:**                **EHS 511**

**INSTRUCTIONS:**     **ANSWER ANY Four (4) QUESTIONS**

**TIME ALLOWED:**     **2 Hours**

**THIS PAPER MUST NOT BE OPENED UNTIL PERMISSION HAS BEEN  
GRANTED BY THE INVIGILATOR.**

**QUESTION 1**

Using structures to illustrate your answers, give and describe:

- a) The major carbohydrate found in sugar cane. (13 Marks)
- b) The major carbohydrate found in milk. (12 Marks)

**QUESTION 2**

What does the statement 'carbohydrates are watered carbons means'? Give four reasons why this statement may not be correct (25 Marks)

**QUESTION 3**

Write the structure of water and explain its role in living things (25 Marks)

**QUESTION 4**

Write short notes about:

- a) Water soluble vitamins (9 Marks)
- b) Saturated fatty acids (8 Marks)
- c) Non essential amino acids (8 Marks)

**QUESTION 5**

Discuss the importance of enzymes in food science (25 Marks)