

Cork Institute of Technology

Bachelor of Science (Honours) in Applied Biosciences – Award

(Bachelor of Science in Applied Biosciences – Award)

(NFQ – Level 8)

April 2005

Science of Food and Healthcare

(Time: 3 Hours)

Instructions to candidates:

Examiners: Dr. D. Gilroy
Prof. R. Fitzgerald

Answer FIVE (5) Questions

- Q1. Write a detailed account on the use of active packaging by the food industry. (20 marks)
- Q2. Write an essay on the topic of GM foods. (20 marks)
- Q3. The nutritional requirements of an athlete are quite complex – Discuss this statement in detail. (20 marks)
- Q4. Write a brief but detailed account on three of the following topics:
Emulsifiers
Quantitative Descriptive Analysis
NIDDM
Thiobarbituric Acid Reactive Substances
Rheology of Newtonian and Non-Newtonian Liquids (20 marks)
- Q5. Outline the role of enzymes in the production of High Fructose Syrup and Cheese. (20 marks)
- Q6. Discuss the role of diet in the prevention, development and treatment of heart disease. (20 marks)
- Q7. (a) Discuss how nutritional requirements change during pregnancy. (12 marks)
(b) Outline the role of nutrition during infancy. (8 marks)