

Cork Institute of Technology  
Bachelor of Science (Honours) in Herbal Science - Year 1  
(NFQ – Level 8)  
Autumn 2007  
**Computer Studies**  
(Time: 2 Hours)

Answer any FOUR questions.  
All Questions carry equal marks.

Examiner: Mr. Martin Connolly  
Dr. D. Corrigan  
Mr. E. Walsh

**Q 1. (25 marks)**

- Q1 (a) Describe the function of a computer processor. (10 marks)
- (b) Explain the following terms:
- (i) Systems Software
  - (ii) Applications Software (10 marks)
- (c) Distinguish between the terms 'Hardware' and 'Software'. (5 marks)

**Q 2. (25 marks)**

- Q 2 (a) Outline the factors to consider when choosing an ISP. (10 marks)
- (b) Distinguish between LANs and WANs. (10 marks)
- (c) List the factors that affect the speed of Internet Access. (5 marks)

**Q 3. (25 marks)**

- Q3 (a) Describe 4 options for connecting to the Internet. (15 marks)
- (b) Explain what you understand by the term 'Access Rights'. (5 marks)
- (c) List 3 components of Anti-Virus Software. Name 2 common Anti-Virus Software packages. (5 marks)

**Q 4. (25 marks)**

- Q 4 (a) Distinguish between the role of the Programmer and the role of the Systems Analyst. (10 marks)
- (b) Explain what you understand by the term 'Software Copyright'. In your answer refer to Freeware and Shareware. (10 marks)
- (c) Briefly outline how databases and software can be used to facilitate the measurement of biodiversity. (5 marks)

**Q 5. (25 marks)**

- Q5 (a) Explain the following Mobile Computing Terms:
- (i) WiFi
  - (ii) Bluetooth
  - (iii) Smartphone (15 marks)
- (b) Outline 5 software tools and/or computer languages that are used in bioinformatics. (10 marks)