

Cork Institute of Technology
Bachelor of Science (Honours) in Herbal Science – Stage 1
(NFQ – Level 8)

Information Technology

(Time: 2 Hours)

Instructions
Answer 4 questions.

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

Q1. (25 marks)

- (a) Explain the terms Systems Software and Application Software. Distinguish between these two types of software. (10 marks)
- (b) Name 3 factors that influence how powerful a computer is. (6 marks)
- (c) Name 3 factors that you should consider when buying a printer. Explain how these factors differ in Inkjet and Laser printers. (9 marks)

Q2. (25 marks)

- (a) What is a Computer Network? (5 marks)
- (b) Describe 4 advantages of networking for an organisation. (8 marks)
- (c) Explain why WANs use the Telephone Network for facilitating connections between computers. Describe the advantages and disadvantages of using the Telephone Network for WAN connections. (12 marks)

Q3. (25 marks)

(a) Explain the following terms:

- (i) Intranet
- (ii) Extranet
- (iii) World Wide Web

(9 marks)

(b) Describe 5 factors that affects the speed of Internet Access. (10 marks)

(c) List the Hardware and Software components you need to connect to the Internet. (6 marks)

Q4. (25 marks)

(a) Describe the factors you should consider when choosing an ISP for Internet Access. (15 marks)

(b) Name 3 risks that can damage computer data. (6 marks)

(c) Explain the following terms:

- (i) Access Rights
- (ii) Password

(4 marks)

Q5. (25 marks)

(a) Describe 4 simple precautions you should take against computer viruses. (8 marks)

(b) Describe 3 components of Anti-Virus Software that can assist you in detecting computer viruses. (9 marks)

(c) Explain why data needs to be backed up regularly. Briefly outline some guidelines for backing up your data. (8 marks)