



# Professional Qualification in COMPUTER ENGINEERING Level 4 Diploma

## UNIT 1 – COMPUTER SYSTEMS

### Question 1

**Compare** the role of computer systems in medical and educational contexts, with reference to the implications of the key differences. (20 marks)

### Question 2

(a) **Explain TWO** ways in which the performance of a computer could be improved. (4 marks)

(b) **Suggest** whether speed or usability is the most important aspect of a home office computer. Justify your answer. (16 marks)

### Question 3

(a) **Explain TWO** reasons why preventative maintenance is important to a computer system. (4 marks)

(b) **Compare ONE** way to perform preventative maintenance on a desktop computer with **ONE** way to perform preventative maintenance on a laptop. (16 marks)

### Question 4

(a) **Explain** how to install a CPU. (6 marks)

(b) **Explain** how to install additional RAM. (6 marks)

(c) **Illustrate** how to diagnose a problem with faulty RAM. Use diagrams and/or examples to support your answer. (8 marks)

### Question 5

(a) **State** the meaning of the term 'back-up'. (2 marks)

(b) **Explain** why it is important to have back-ups. (6 marks)

(c) **Illustrate** the process for creating a back-up of personal files. Use diagrams and/or examples to support your answer. (12 marks)