



Professional Qualification in COMPUTER ENGINEERING Level 4 Diploma

UNIT 1 – COMPUTER SYSTEMS

Question 1

- (a) **Describe** the role of the computer in the home environment. (6 marks)
- (b) **Describe** the role of the computer in the computer gaming environment. (6 marks)
- (c) **Explain why** computers in the computer gaming environment require high performance. (8 marks)

Question 2

- (a) **State** what a CPU does. (2 marks)
- (b) **Explain how** CPU performance is measured. (6 marks)
- (c) **Assess** the CPU requirements for watching television on a computer. (12 marks)

Question 3

- (a) **Explain how** to install a hard-disk drive. (4 marks)
- (b) **Explain how** to install an optical drive. (4 marks)
- (c) **Illustrate how** to diagnose a problem with faulty hardware. Use diagrams and/or examples to support your answer. (12 marks)

Question 4

- (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)

Question 5

Illustrate how hardware components are structured in a computer system. Use diagrams and/or examples to support your answer. (20 marks)