



Professional Qualification in COMPUTER ENGINEERING Level 4 Diploma

UNIT 1 – COMPUTER SYSTEMS

Question 1

- (a) **Describe ONE** use-case for using a tablet in an environment of your choice. (2 marks)
- (b) Referring to your response to Question 1a, **explain why** the use of a tablet is appropriate. (6 marks)
- (c) **Illustrate THREE** health **and** safety practices associated **with** tablets. Use diagrams and/or examples to support your answer. (12 marks)

Question 2

- (a) **State** what is meant by the term 'design specification'. (2 marks)
- (b) **Explain how** a design specification for a new computer system can be put together. (6 marks)
- (c) **Compare THREE** criteria to consider when specifying a type of processor. (12 marks)

Question 3

- (a) **Explain how** to install an optical drive. (6 marks)
- (b) **Explain how** to install a network adapter. (6 marks)
- (c) **Illustrate TWO** common difficulties associated **with** installing printers. Use diagrams and/or examples to support your answer. (8 marks)

Question 4

- (a) **State** the meaning of the term 'application patches'. (2 marks)
- (b) **Explain why** it is important to patch applications. (6 marks)
- (c) **Illustrate how** to install an application patch for an application of your choice. Use diagrams and/or examples to support your answer. (12 marks)

Question 5

Discuss the **most** important differences between designing a computer for the home and business environments. (20 marks)