



Professional Qualification in COMPUTER ENGINEERING Level 4 Diploma

UNIT 1 – COMPUTER SYSTEMS

Question 1

- a) **Explain** what a 'tablet computer' is. (4 marks)
- b) **Explain TWO** roles of a tablet computers in a classroom **and TWO** roles of a tablet computer in an office environment. (16 marks)

Question 2

- a) **Describe FOUR** internal components of a computer system. (8 marks)
- b) Referring to your answer to Question 2a, **illustrate** how **TWO** of these components are related. Use examples and diagrams to support your answer. (12 marks)

Question 3

- a) **Explain TWO** ways in which the performance of a computer could be improved. (4 marks)
- b) **Discuss** whether speed **or** usability is the **most** important aspect for a home office computer. (16 marks)

Question 4

- a) **Explain** the process of installing a new central processing unit in a personal desktop computer. (8 marks)
- b) **Explain TWO** approaches to testing a computer system which fails its 'power-on' self-test. (12 marks)

Question 5

- a) **Explain why** preventative maintenance is important to a computer system. (8 marks)
- b) **Compare TWO ways** to perform preventative maintenance on a personal desktop computer with **TWO ways** to perform preventative maintenance a laptop. (12 marks)