



Professional Qualification in COMPUTER ENGINEERING Level 4 Diploma

UNIT 1 – COMPUTER SYSTEMS

Question 1

- (a) Using examples, **discuss** the role and function of input and output devices in a computer system. (10 marks)
- (b) **Describe TWO** ways in which embedded controllers can improve the flexibility and efficiency of domestic household devices. (10 marks)

Question 2

Describe the purpose and function of **FOUR** hardware components essential for a computer system. (20 marks)

Question 3

- (a) **Explain** the importance of computer system security when evaluating the suitability of a design specification. (10 marks)
- (b) **Discuss** the benefits of using feedback from clients to amend and adapt a design specification. (10 marks)

Question 4

Discuss the steps and processes of testing and documenting a new computer installation. (20 marks)

Question 5

- (a) **Explain** the importance of having hardware regularly inspected and serviced and of undertaking preventative work. (10 marks)
- (b) **Describe** how to install and configure a new graphics card. (10 marks)