



Professional Qualification in COMPUTER ENGINEERING Level 4 Diploma

UNIT 1 – COMPUTER SYSTEMS

Question 1

- (a) **Compare** and **contrast** the functions of computer systems in a home environment and in a business environment. (10 marks)
- (b) **Describe TWO** health and safety practices associated with using a computer system. (10 marks)

Question 2

- (a) **Describe TWO** forms of data storage and their function in a computer system. (10 marks)
- (b) **Discuss** the performance factors associated with hardware and software selection. (10 marks)

Question 3

- (a) **Explain** how a power and thermal analysis would inform the suitability of a design specification. (10 marks)
- (b) **Describe** the process and the benefits of conducting a 'dry run' when evaluating the suitability of a design. (10 marks)

Question 4

One of your clients wants to install a new computer system and they already have a design specification. **Explain** how you would build and configure a computer system to meet their specification. (20 marks)

Question 5

- (a) **Describe THREE** pieces of equipment used to clean a computer system and how they are used. (12 marks)
- (b) **Explain** the purpose and role of third party utility software when upgrading a computer system. (8 marks)