



Professional Qualification in COMPUTER ENGINEERING Level 4 Diploma

UNIT 1 – COMPUTER SYSTEMS

Question 1

- (a) Describe the role of utility programs. (6 marks)
- (b) Describe the role of libraries. (6 marks)
- (c) Explain the 'software hierarchy'. (8 marks)

Question 2

- (a) State what a CPU does. (2 marks)
- (b) Explain how performance is measured. Give TWO examples. (6 marks)
- (c) Referring to your response to Question 2b, compare the importance of EACH measure when choosing a CPU. (12 marks)

Question 3

- (a) Explain how to install a CPU. (6 marks)
- (b) Explain how to install the CPU heatsink. (6 marks)
- (c) Illustrate TWO common difficulties associated with installing heatsinks. Use diagrams and/or examples to support your answer. (8 marks)

Question 4

- (a) State the meaning of the term 'routine maintenance'. (2 marks)
- (b) Explain why it is important to schedule maintenance. (6 marks)
- (c) Illustrate ONE task commonly associated with routine maintenance. Use diagrams and/or examples to support your answer. (12 marks)

Question 5

Discuss the key differences between embedded and desktop systems. (20 marks)