



Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

Level 4 Diploma

UNIT 3 – INFORMATION SYSTEMS ANALYSIS AND DESIGN

Question 1

- (a) State TWO common life cycle models for system development. (2 marks)
- (b) Referring to your response to Question 1a, explain why EACH system life cycle is used. (6 marks)
- (c) Describe FOUR basic stages in analysis and design. (12 marks)

Question 2

- (a) Describe TWO examples of system performance requirement. (4 marks)
- (b) Explain why system performance requirements are important requirements. (6 marks)
- (c) Compare the differences between functional and system performance requirements. (10 marks)

Question 3

- (a) State what a context diagram is. (2 marks)
- (b) Explain the difference between data flow and use cases. (6 marks)
- (c) Illustrate THREE key components in a context diagram. Use diagrams and/or examples to support your answer. (12 marks)

Question 4

- (a) Describe the meaning of the term 'risk assessment'. (4 marks)
- (b) Explain why performing a risk assessment is valuable. (8 marks)
- (c) Explain the costs associated with risk assessment. (8 marks)

Question 5

Compare the Spiral and Waterfall system development lifecycles. (20 marks)