



Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

Level 4 Diploma

UNIT 3 – INFORMATION SYSTEMS ANALYSIS AND DESIGN

Question 1

- (a) **State TWO** skills required by a systems analyst. (2 marks)
- (b) Referring to your response to Question 1a, **explain why** these skills are important. (6 marks)
- (c) Referring to your response to Question 1a, **explain TWO** ways in which these skills are used in an information systems project. (12 marks)

Question 2

- (a) **Describe TWO** data quality objectives. (4 marks)
- (b) **Explain why** data quality objectives are important requirements. (6 marks)
- (c) **Compare** the differences between data quality objectives and functional requirements. (10 marks)

Question 3

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

Question 4

- (a) **State** the meaning of the acronym 'SMART'. (4 marks)
- (b) **Explain why** having SMART objectives is valuable. (8 marks)
- (c) **Explain how** having non-SMART objectives could affect the management of a project. (8 marks)

Question 5

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