



Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

Level 4 Diploma

UNIT 3 – INFORMATION SYSTEMS ANALYSIS AND DESIGN

Question 1

- (a) **Explain TWO** reasons why a systems analyst should communicate with the end user before designing a system. (10 marks)
- (b) **Explain TWO** reasons why it is important to evaluate a new system. (10 marks)

Question 2

- (a) **Describe** the term 'data quality objective'. (4 marks)
- (b) **Describe TWO** ways in which data quality objectives differ from **ONE** other category of requirement. (16 marks)

Question 3

- (a) **Describe ONE** way to draw a use-case diagram. (2 marks)
- (b) **Explain TWO** limitations of using a use-case to analyse requirements. (4 marks)
- (c) **Illustrate how** 'inheritance' is used to relate objects in a UML object model. Use diagrams and/or examples to support your answer. (14 marks)

Question 4

- (a) **Explain** the value of having achievable and time-bound objectives. (4 marks)
- (b) **Illustrate** why it is important to consult with experts when determining the resource requirements for an IT project. Use examples to support your answer. (16 marks)

Question 5

Compare TWO advantages to a systems analyst of using phased life-cycle models when developing systems. (20 marks)