



Professional Qualification in
COMPUTING AND INFORMATION SYSTEMS
Level 4 Diploma

UNIT 3 – INFORMATION SYSTEMS ANALYSIS AND DESIGN

Question 1

Describe THREE different life cycle models for systems development and the advantages and disadvantages of each. (20 marks)

Question 2

(a) **Describe** the advantages of iterative over non-iterative approaches for change management. (10 marks)

(b) **Describe** the advantages of using the phased-life cycle approach in realising the deliverables at each stage of an information systems project. (10 marks)

Question 3

(a) **Explain** how interviews and rapid prototype demos can assist a systems analyst in requirements gathering. (10 marks)

(b) **Discuss** the different skills a systems analyst should have to implement requirement gathering techniques and to analyse and evaluate the results. (10 marks)

Question 4

Illustrate the information flow in a parcel delivery service between a customer, the website, and the delivery company when ordering goods online using an appropriate UML diagram. (20 marks)

Question 5

(a) **Discuss** the importance of specifying clear goals for an information systems project. (10 marks)

(b) **Discuss** the strengths and weaknesses of the SCRUM project management methodology. (10 marks)