



Professional Qualification in
COMPUTING AND INFORMATION SYSTEMS
Level 4 Diploma

UNIT 3 – INFORMATION SYSTEMS ANALYSIS AND DESIGN

Question 1

- (a) **Describe** the Waterfall method of systems development. (10 marks)
- (b) **Illustrate** how the Waterfall model can be applied to an information systems project. (10 marks)

Question 2

- (a) **Explain** why it is important for a systems analyst to have good communication skills. (10 marks)
- (b) **Describe TWO** methods a systems analyst can use to establish an organisation's requirements for an information systems project. (10 marks)

Question 3

Illustrate the requirements for a stock control system using an appropriate UML use-case diagram. (20 marks)

Question 4

Illustrate the information flow between a customer, website and travel agency when making a holiday booking using an appropriate UML diagram. (20 marks)

Question 5

- (a) **Illustrate** the technique of writing SMART targets in the context of an information systems project. (10 marks)
- (b) **Discuss TWO** considerations when selecting an appropriate methodology for an information systems project. (10 marks)