



Professional Qualification in COMPUTING AND INFORMATION SYSTEMS Level 4 Diploma

UNIT 3 – INFORMATION SYSTEMS ANALYSIS AND DESIGN

Question 1

- (a) **Explain** the advantages and disadvantages of using the Rapid Application Development (RAD) model for systems development. (10 marks)
- (b) **Describe** the systems development life cycle model as a structured approach to information systems development. (10 marks)

Question 2

- (a) **Compare** and **contrast** the use of group interviews and questionnaires as techniques for information gathering. (10 marks)
- (b) **Describe** the systems analysis skills needed to produce a feasibility study. (10 marks)

Question 3

- (a) **Describe TWO** different categories of requirements that projects may have. (10 marks)
- (b) **Illustrate** a model for buying a ticket for a railway journey by drawing and labelling a simple use-case diagram. (10 marks)

Question 4

Illustrate how a wholesale food supplier for a restaurant would process a sales transaction, from taking the order through to the supply and delivery, by drawing and labelling a complete systems data flow diagram. (20 marks)

Question 5

- (a) **Discuss** the strengths and weaknesses of the Prince2 project management methodology. (10 marks)
- (b) **Describe TWO** project management tools used for information systems planning. (10 marks)