



Professional Qualification in COMPUTING AND INFORMATION SYSTEMS Level 4 Diploma

UNIT 3 – INFORMATION SYSTEMS ANALYSIS AND DESIGN

Question 1

- (a) **Describe** the Rapid Application Development (RAD) model for systems development. (10 marks)
- (b) **Describe** the benefits of using a phased-life cycle approach to information systems development. (10 marks)

Question 2

- (a) **Describe TWO** methods of gathering information in a large organisation that would be available to a systems analyst. (10 marks)
- (b) **Discuss** the skill set needed by a systems analyst to produce a feasibility study. (10 marks)

Question 3

Explain how UML modelling techniques are applied to communicate the requirements of an information system across different categories of project. (20 marks)

Question 4

Illustrate a stock control system, including handling new orders, checking stock levels and ordering new supplies, by drawing and labelling a complete systems data flow diagram. (20 marks)

Question 5

- (a) **Assess** the strengths and weaknesses of the Prince2 project management methodology. (10 marks)
- (b) **Explain** how GANTT charts and maintaining Risks, Assumptions, Issues and Dependencies (RAID) logs support the management of a project. (10 marks)