



# Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

## Level 4 Diploma

### UNIT 3 – INFORMATION SYSTEMS ANALYSIS AND DESIGN

#### Question 1

- (a) **Explain FOUR** skills required to undertake a feasibility study. (8 marks)
- (b) **Compare** the role of feasibility studies in the Waterfall **and** RAD lifecycles. (12marks)

#### Question 2

- (a) **Explain** the need for a preliminary budget to determine specification requirements. (8 marks)
- (b) **Describe TWO** approaches to estimating costs. (12 marks)

#### Question 3

- (a) **Explain** the process of gathering requirements from multiple stakeholders. (8 marks)
- (b) **Discuss** which stakeholders would be the **most** relevant for a new e-commerce system run by a large international company. (12 marks)

#### Question 4

- (a) **Describe** the process of creating a 'data flow' diagram to illustrate processes. (8 marks)
- (b) **Illustrate ONE** process which enables a customer to locate products in an e-commerce system. Use a UML Use-Case diagram to support your answer. (12 marks)

#### Question 5

- (a) **Explain TWO** benefits of having SMART objectives. (4 marks)
- (b) **Distinguish** between Prince2 **and** SCRUM. (8 marks)
- (c) Referring to your response to Question 5b, **suggest** the **most** flexible planning method for a project which has evolving requirements. **Justify** your answer. (8 marks)