



# Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

## Level 4 Diploma

### UNIT 3 – INFORMATION SYSTEMS ANALYSIS AND DESIGN

#### Question 1

- (a) **State** what is meant by the Waterfall method of systems development. (4 marks)
- (b) **Discuss** why it is important to conduct an initial feasibility study before committing to a proposed information system project. (8 marks)
- (c) **Explain** the advantages of using a phased-life cycle approach. (8 marks)

#### Question 2

- (a) **State** what is meant by the term 'systems analyst'. (4 marks)
- (b) **Describe** the role of the systems analyst in an information systems project. (8 marks)
- (c) **Explain** why employability skills are important to a systems analyst. (8 marks)

#### Question 3

- (a) **Describe FOUR** categories of requirement that an information systems project may have. (10 marks)
- (b) **Describe** business intelligence reporting in the context of an information system. (10 marks)

#### Question 4

- (a) **State** what is meant by the term 'context diagram'. (4 marks)
- (b) **Describe** the use of a context diagram to communicate the flow of information. (8 marks)
- (c) **Draw** a simple data flow diagram to illustrate the information flow of a system allowing a student to enrol for a college course. (8 marks)

#### Question 5

- (a) **State** what is meant by the term 'ganttt chart'. (4 marks)
- (b) **Describe** the planning methodologies available to project planners. (8 marks)
- (c) **Describe TWO** examples of project management tools. (8 marks)