



# Professional Qualification in COMPUTING AND INFORMATION SYSTEMS

## Level 4 Diploma

### UNIT 1 – INFORMATION SYSTEMS

#### Question 1

- (a) State the meaning of the acronym 'JDBC'. (2 marks)
- (b) Explain TWO ways how JDBC is used to facilitate transfer of data between information systems. (6 marks)
- (c) Explain THREE disadvantages of using JDBC. (12 marks)

#### Question 2

- (a) Describe the meaning of the term logistics. (2 marks)
- (b) Explain TWO methods of how an information system can be used to support logistics. (6 marks)
- (c) Illustrate TWO advantages of using an information system to support logistics. Use diagrams and/or examples to support your answer. (12 marks)

#### Question 3

- (a) Describe what a business case is. (4 marks)
- (b) Explain why it is important to consider developing a business case during the conceptual stage of a project. (8 marks)
- (c) Compare TWO methods of how spiral and linear life cycles may affect the development of a business case. (8 marks)

#### Question 4

- (a) State TWO key responsibilities of information architects. (2 marks)
- (b) Explain whether people involved in information architecture have any responsibility for organisational security. (6 marks)
- (c) Compare TWO ways how the task of knowledge management differs from the task of programming. (12 marks)

### Question 5

Illustrate ONE method of how an information system may be used to support medical image processing. Use diagrams and/or examples to support your answer. (20 marks)

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