

BCS THE CHARTERED INSTITUTE FOR IT

BCS HIGHER EDUCATION QUALIFICATIONS
BCS Level 6 Professional Graduate Diploma in IT

MANAGEMENT INFORMATION SYSTEMS

Tuesday 15th April 2025 - Afternoon

Answer **any** THREE questions out of FIVE. All questions carry equal marks.

Time: THREE hours

Answer any Section A questions you attempt in Answer Book A
Answer any Section B questions you attempt in Answer Book B

The marks given in brackets are **indicative** of the weight given to each part of the question.

Calculators are NOT allowed in this examination.

Section A
Answer Section A questions in Answer Book A

A1.

- a) Explain the differences between unstructured versus structured classifications of decision-making.
(7 marks)
- b) Describe the main attributes of decision-making.
(5 marks)
- c) Explain the consequences for organisations if information is not timely, relevant, accurate, and complete.
(7 marks)
- d) Provide **six** Management Information Systems (MIS) types.
(6 marks)

A2.

- a) Explain what is meant by Management Reporting Systems (MRS) and provide **four** examples.
(7 marks)
- b) Explain **two** of the main models and techniques of Decision Support Systems (DSS).
(7 marks)
- c) Define what is meant by Online Analytical Processing (OLAP) and provide **two** examples of its application.
(5 marks)
- d) Define what is meant by the term 'data warehousing' and explain how it is used in a business organisation.
(6 marks)

A3.

- a) Define what is meant by the term Decision Support Systems (DSS).
(4 marks)
- b) Define what is meant by the term Business Intelligence (BI) and provide **four** examples of its use.
(8 marks)
- c) Explain the advantages to an organisation of the use of Business Intelligence (BI) and what possible pitfalls there may be.
(8 marks)
- d) Provide **five** examples of where data mining can be most effectively applied.
(5 marks)

Section B
Answer Section B questions in Answer Book B

B4.

- a) Define the term 'cost-benefit analysis' and describe how it uses quantitative and qualitative measures to provide meaningful management information.
(10 marks)
- b) Describe how Computer-Aided Software Engineering (CASE) tools would benefit a major IT systems development that included database, web-based and data warehouse software.
(8 marks)
- c) Describe the main factors that would be used to evaluate whether a package, customised package, or in-house development solution would be more suitable.
(7 marks)

B5.

- a) Provide **three** advantages and **three** disadvantages of virtual and flexible working for management organisations and explain how modern Management Information Systems (MIS) have enabled these changes to be made.
(10 marks)
- b) Describe the main security challenges for organisations who allow employees to use Bring Your Own Device (BYOD) mobile hardware to access company systems.
(10 marks)
- c) Describe the main opportunities for organisations who widely use social media as a business tool.
(5 marks)

END OF EXAMINATION