

**BCS THE CHARTERED INSTITUTE FOR IT**

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

**MANAGEMENT INFORMATION SYSTEMS**

Thursday 5th October 2023 - 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) Good decision making is crucial for management.

Explain, with examples, the types and levels in Simon's model of decision-making.  
**(10 marks)**

- b) Useful information provided to an organisation needs to be timely, relevant, accurate, and complete.

Explain, with examples, the benefits from having good data quality and the associated risks to the business if high standards of data quality are not achieved.  
**(15 marks)**

**A2.**

- a) Describe and explain with examples, Expert Systems and how they benefit an organisation.

**(13 marks)**

- b) Describe and explain with examples, Neural Network Systems.

**(12 marks)**

**A3.**

- a) Explain the key features and techniques used in data mining.

**(10 marks)**

- b) Explain the relationship between data mining and management information.

**(15 marks)**

**Section B**  
**Answer Section B questions in Answer Book B**

**B4.**

- a) Define what is meant by, and explain the advantages of Off-the-Shelf packages.

**(12 marks)**

- b) Define what is meant by, and explain the advantages of bespoke software development.

**(13 marks)**

**B5.**

- a) Evaluate the latest developments in hardware and software that have a role in Management Information Systems.

**(13 marks)**

- b) Evaluate the latest developments in Internet and communications capabilities that have a role in Management Information Systems.

**(12 marks)**

**END OF EXAMINATION**