# BCS THE CHARTERED INSTITUTE FOR IT

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

## MANAGEMENT INFORMATION SYSTEMS

**Thursday 19th September 2019 - 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

**[Turn Over]**

**Section A**
**Answer Section A questions in Answer Book A**

A1.     You are the IS manager of a medium sized company with around 500 staff. A recent consultancy report has proposed that the HR system you currently operate in-house should be outsourced to, and hosted by, a major application provider.

a)  Discuss THREE arguments for or against this proposal with the aid of suitable examples.

**(15 marks)**

b)  The senior management has decided to implement the proposal. Write a report to the senior management detailing how you could minimise the risk to the company during the transition process. Demonstrate your suggestions in the report with appropriate examples.

**(10 marks)**

A2.     At a recent meeting, where information strategy was being discussed, the Head of MIS for a major organisation you work for was quoted as saying *'No single employee should ever have complete access to the full MIS data of the organisation'*.

a)  Discuss the extent to which you agree with this statement. You should provide THREE reasons, with examples, to support your case.

**(15 marks)**

b)  In the form of an article for the company newsletter, describe the policy you believe the company should adopt regarding the future access to MIS data.

**(10 marks)**

A3.

a)  Describe the concepts of Management Reporting Systems, Decision Support Systems and Office Information Systems.

**(15 marks)**

b)  Discuss how Decision Support Systems and Group Decision Support Systems differ in practical terms.

**(10 marks)**

**[Turn Over]**

**B4.**     '*Information must be timely, relevant and accurate'.*

   a)   Discuss what is meant by the above statement.

                                                                    **(7 marks)**

   b)   Identify and justify THREE concepts/technologies that enable today's MIS to
        provide timely, relevant and accurate information.

                                                                    **(18 marks)**

**B5.**

   a)   With the aid of examples, explain EACH of the following concepts found within
        On-line Analytical Processing (OLAP) Tools:

        (i)      Data cube.
        (ii)     Drill down.
        (iii)    Roll up.
        (iv)     Slice and Dice.

                                                                    **(12 marks)**

   b)   Assess, with suitable justification, the usefulness of star and snowflake schema
        designs to the development of an OLAP-based multi-dimensional data mart.
        Include an overview of star and snowflake schema designs as part of your
        answer.

                                                                    **(13 marks)**


                              **End of Exam**