Diploma Programme
Programme du diplôme
Programa del Diploma

# Computer science
# Higher level
# Paper 3

Monday 8 May 2017 (morning)

1 hour

## Instructions to candidates

- Do not turn over this examination paper until instructed to do so.
- A clean copy of the **computer science case study** is required for this examination paper.
- Read the case study carefully.
- Answer all questions.
- The maximum mark for this examination paper is **[30 marks]**.

2 pages

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Answer **all** questions.

**1.**   Outline the advantages that diagnostic systems based on fuzzy logic have over previous
         systems which relied on rules and boolean logic.                                    [4]

**2.**   Explain how NFC and RFID have made it possible for some chronically ill people to be cared
         for at home rather than in hospital.                                                [4]

**3.**   (a)   Outline the importance of **interoperability** in electronic health records, and any issues
               it presents.                                                                  [4]

         (b)   Discuss the advantages and disadvantages of electronic health records.        [6]

**4.**   Current and future technologies are likely to have a dramatic effect on the medical
         profession.  By explaining the modern advances in technology, discuss the changes which
         doctors and surgeons may face in the future.                                        [12]