Diploma Programme
Programme du diplôme
Programa del Diploma

Information technology in a global society
Higher level
Paper 3

Thursday 18 May 2017 (morning)

1 hour 15 minutes

Candidate session number

Instructions to candidates

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- Read the case study carefully.
- Answer all questions.
- Answers must be written within the answer boxes provided.
- The maximum mark for this examination paper is **[30 marks]**.

08EP01

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Answer **all** the questions in the boxes provided.

Refer to the *Wearable Technology – Kita Health Tech (KHT)* case study **and** to your own related research in responding to the following questions.

1.   (a)   Insurance companies will use data gathered by the *KHT* watch when deciding on the price of an insurance policy.

Identify **two** items of data that could be collected by the *KHT* watch.   [2]

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(b)   Outline **one** reason for using XML to format the data produced by the wearable devices.   [2]

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2. A group of students who own *KHT* watches decided to compare their watches. Although they completed the same activities they found information, such as the number of steps walked, differed between the watches.

Explain **three** reasons why these differences may occur. [6]

Turn over

3. *KHT* has received requests from some customers to include features that they can use to help them manage their own health and well-being (lines 96–99, 103–105).

Discuss whether *KHT* should develop its wearable technologies so that customers can use them to help manage their own health and well-being. [8]

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Your response to question 4 **must** include evidence of independent research linked to the *Wearable Technology – Kita Health Tech (KHT)* case study.

4.   The wearable technology developed by *KHT* enables the company to continuously gather data from its customers during their normal daily activities. Fajar and Adel have agreed to share this data with a number of healthcare organizations. This data could then be used to assist doctors in making recommendations to their patients (lines 20–21, 70–81, 111–121).

   Discuss whether doctors should use this data when making recommendations to their patients.   [12]