Diploma Programme
Programme du diplôme
Programa del Diploma

Information technology in a global society
Higher level
Paper 3

Wednesday 8 November 2017 (morning)

Candidate session number

1 hour 15 minutes

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]**.

8 pages

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Answer **all** questions. Answers must be written within the answer 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) Identify **two** items of data that may be included in the XML file uploaded to the cloud server after a user of *KHT* wearable technology finishes jogging. [2]

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(b) Outline **one** difference between copyright and patent. [2]

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2. ANT+, cable and WiFi are methods of transferring data from the *KHT* wearable devices to the user's desktop, smartphone and other devices such as an exercise bike.

Compare these **three** methods of transferring data. [6]

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3. Insurance companies have contacted *KHT*. They would like to use the data collected from the wearable devices of *KHT*'s customers to help calculate the price of their insurance policies (lines 77–81, 111–121).

Discuss whether *KHT* should share its customers' data with these insurance companies. [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. Mika, Lily, Adel and Fajar are investigating how *KHT* should move forward from its current position. They have been discussing two proposals:

- whether to improve the reliability and functionality of the wearable technologies (lines 89–99) or
- whether to develop the services offered by *KHT* that allow customers to customize the wearable technologies, enabling them to trigger alerts such as when there are changes to health advice (lines 102–110, 124–128).

Evaluate these **two** proposals. [12]

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