

Information technology in a global society
Higher level
Paper 3

Thursday 17 November 2016 (morning)

Candidate session number

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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 in the boxes provided.
- The maximum mark for this examination paper is **[30 marks]**.



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

Refer to the *Smart Homes* case study **and** to your own related research in responding to the following questions.

1. (a) Identify **two** ways that the devices in the smart home can be used to make the smart home more environmentally friendly. [2]

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- (b) Identify **two** requirements for cell/mobile phone or tablet devices to be successfully integrated with a smart home. [2]

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2. (a) Explain **one** reason why a protocol is needed by the IFTTT server to send and receive information. [2]

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- (b) Explain **two** reasons why a service such as IFTTT is not suitable for emergency responses, such as notifying the fire department of a fire in a smart home. [4]

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08EP05

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Your response to question 4 **must** include evidence of independent research linked to the *Smart Homes* case study.

4. Brix Homes is planning to go into partnership with a third-party cloud-based data service so that all of the information from the devices in the smart home can be stored centrally and be used to check the quality of service of these devices. There are concerns about this data being used for other purposes that are not in the interests of the smart home owner (lines 74–81).

Discuss whether Brix Homes should go into partnership with a third-party cloud-based data service.

[12]

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08EP07

Turn over

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