

Information technology in a global society Higher level Paper 3

Tuesday 17 May 2016 (morning)								
		Can	dida	te se	ssior	nun	nber	

Instructions to candidates

1 hour 15 minutes

- 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].

2216-5515 © International Baccalaureate Organization 2016



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.

•	disabilities.	[4]



ecipe that would trigger an action by a device in a smart home.
xplain two ways that an unreliable device or a network failure can cause problems in se smart home or for its occupants.



To what extent is the success of the smart home dependant on the usability of the HCI of the

3. As increasing numbers of people will be living in smart homes, the nature of the Human—Computer Interface (HCI), the means by which the occupants interact with the device(s), will be critical to the success of the smart home.

device manager (lines 46–52)?	[8]





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

4. Brix Homes is considering whether to use a third party provider, Intelligent Homes Services, to set up a proprietary cloud-based portal service for new houses that Brix Homes builds. This will allow the owners of these smart homes to control devices using the web portal from either inside or outside of the house (lines 65–73).

Discuss whether Brix Homes should use Intelligent Homes Services to set up a proprietary

cloud-based portal service for new houses.	[12]





