



## Thursday 16 May 2019 – Morning

## LEVEL 3 CAMBRIDGE TECHNICAL IN IT

**05838/05839/05840/05841/05842/05877**

## Unit 2: Global information

**Time allowed: 1 hour 30 minutes plus your additional time allowance**

**C382/1906**

**You must have:  
a clean copy of the  
pre-release (Insert C386)**

## Modified Enlarged 18 pt

**Please write clearly in black ink.**

**Centre  
number**

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Candidate  
number

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**First name(s)**

**Last name**

## Date of Birth

D	D	M	M	Y	Y	Y	Y
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## **INSTRUCTIONS**

**The Insert will be found inside this document.**

**Use black ink.**

**Answer ALL the questions.**

**Write your answer to each question in the space provided.**

**If additional answer space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.**

## **INFORMATION**

**The case study should be used to answer questions in Section A.**

**The total mark for this paper is 80.**

**The marks for each question are shown in brackets [ ].**

**Quality of extended response will be assessed in questions marked with an asterisk (\*).**

**Answer ALL the questions.**

## **SECTION A**

**This section relates to the case study on PH Disaster Aid (PHDA).**

**1 PH Disaster Aid stores details of the approved team members in a database.**

- (a) (i) Identify the information style that has been applied to the Contact\_Number field.**

\_\_\_\_\_ **[1]**

- (ii) Explain why this information style has been used.**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ **[3]**

- (b) Identify the category of information holders in which PH Disaster Aid would be included.**

\_\_\_\_\_ **[1]**

- 2 When a natural disaster happens, information needs to be accessed and collected by the country's government.**

**Explain TWO issues that may prevent the government from accessing this information.**

**[6]**

**1**

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**2**

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- 3\* Information about the natural disaster is sent from the disaster area to enable the correct relief aid and specialist teams to be sent.**

**Discuss the consequences to the teams and the people who live in the disaster area if the information about the natural disaster is of poor quality. [10]**

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[illegible]

- 4 Decisions will be made by the network coordinators about the number of seats and cargo space to allocate to each charity and organisation.**

**Identify the type of software that could be used to make these decisions. Justify your choice.**

**Software** \_\_\_\_\_

**Justification** \_\_\_\_\_

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**[5]**

**5 Each time a team is sent to a disaster area, PHDA sends records of the attending team members to the network coordinator.**

**(a) Explain why it is important to maintain the integrity of these records.**

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**[4]**

**One piece of data held in the records is the Visa Number.**

**(b) Identify the TYPE of source to which the above information might belong. Justify your choice.**

**Source** \_\_\_\_\_

**Justification** \_\_\_\_\_

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**[3]**

**6 The team members use handheld devices to record videos to send back to PH Disaster Aid.**

- (a) (i) Identify one handheld device that could be used to record the videos.**

**[1]**

- (ii) Describe ONE advantage and ONE disadvantage of using this handheld device.**

**Advantage**

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**Disadvantage**

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**[4]**



(b) Describe TWO uses of these videos.

1

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2

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[4]

**SECTION B**

**You do not need the case study to answer these questions.**

**7 A school holds records, in a database, about its students and staff. The records include personal details including name, gender, date of birth, any disabilities or medical problems and contact details.**

**(a) The database uses separate tables to hold details of the students and the staff.**

**Explain ONE advantage of using separate tables for students and staff.**

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**[3]**

**Some of the data held in the database can be classified as private.**

- (b) Using an example from the database, explain what is meant when classifying information as private.**

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**[4]**

[illegible]

If a student moves to a different school, the data held in his/her record has to be sent to the new school. The data is transmitted online.

- (d) Identify and describe ONE security method that can be taken to keep this information secure during transmission.

Security method \_\_\_\_\_

\_\_\_\_\_

Description \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

[4]

- (e) Explain ONE impact to the student if the data is not transmitted securely.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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[3]

**8 A hotel is redeveloping its booking website.**

**(a) The booking website will use quantitative data.**

**Explain what is meant by the term quantitative data.**

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**[2]**

**(b) Identify ONE item of quantitative data that could be used in the booking website.**

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**[1]**

**(c) Identify and describe ONE feature that should be included on the booking website to ensure compliance with the UN Convention on the Rights of Persons with Disabilities (UNCPRD).**

**Feature** \_\_\_\_\_

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**Description** \_\_\_\_\_

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**[4]**

- (d) The booking website advertises that the hotel has reduced its carbon footprint.

Explain what is meant by the term 'reducing carbon footprint'.

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[2]

- (e) (i) Identify the type of information system structure into which the booking website would be included.

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[1]

- (ii) Describe ONE benefit and ONE limitation of using this type of information system structure for the booking website.

**Benefit** \_\_\_\_\_

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**Limitation** \_\_\_\_\_

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[4]

**END OF QUESTION PAPER**

[illegible]









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