

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 24 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 _____

2 _____

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]

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 _____

[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.

[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 _____

[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

Disadvantage

[4]

(b) Describe TWO uses of these videos.

1

2

[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.

[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.

[4]

(c)* Discuss how the Equality Act should be considered when the school is using the records to select staff for a promotion. [10]

[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 _____

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

[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.

[2]

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

[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 (UNCRPD).**

Feature _____

Description _____

[4]

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

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

[2]

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

[1]

- (ii) Describe ONE benefit and ONE limitation of using this type of information system structure for the booking website. [4]

Benefit

Limitation _____

END OF QUESTION PAPER

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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