

Friday 10 January 2020 – Afternoon

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

**You must have:
a clean copy of the
Pre-release
(with this document)**

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

Use black ink. You can use an HB pencil, but only for graphs and diagrams.

Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.

Answer ALL the questions.

INFORMATION

Use the Insert to answer the 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 (*).

ADVICE

Read each question carefully before you start your answer.

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INTENTIONALLY BLANK**

Answer ALL the questions.

SECTION A

This section relates to the case study on the Response Team.

1 Details of the cars are stored in the Car Database.

(a)(i) Identify the information style that has been applied to the 'Date of Registration' field.

_____ **[1]**

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

_____ **[3]**

5

(b) Identify the information classification that the Car Database would be included in. Justify your choice.

Information classification _____
_____ **[1]**

Justification _____

_____ **[3]**

2 Each car has a tracking system which enables its location to be found.

(a) Identify the data analysis tool the tracking system would be included in.

_____ **[1]**

6

(b) Justify the use of the car's tracking system by the response team.

[4]

3 The results of a car's diagnostic test are uploaded to a shared storage area.

(a) Explain the purpose of this shared storage area.

[3]

(b) Describe ONE advantage and ONE disadvantage of uploading the diagnostic test results to a shared storage area.

Advantage _____

Disadvantage _____

[4]

(c) Describe ONE consequence to the car owner of poor-quality information being passed to the repair and recovery garage.

[2]

4* Discuss how the principles of information security, including the risks and impacts, should be considered by the response team when dealing with any SOS call. [10]

[illegible]

5 Some of the cars have been sold and registered in the United States of America (USA).

Data about the cars is sent to the USA when the cars are transported.

(a) Identify the global information protection scheme which would be applied to data sent from the UK to the USA.

[1]

(b) Explain how this scheme aims to protect this data.

[4]

6 Explain, using an example, how charts and graphs created from the data held in the Car Database could be used by the car manufacturer.

[3]

SECTION B

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

A market research company collects, stores and processes data and information for its clients. The data and information is collected by email, online surveys and in person.

7 (a) The online surveys are accessed through the internet.

Describe what is meant by the internet.

[3]

(b) The online surveys could be completed using a portable device. Identify TWO portable devices that could be used.

1 _____

2 _____

[2]

(c) Primary and secondary data are collected and used by the marketing company.

(i) What is meant by data?

_____ **[2]**

(ii) Describe ONE difference between primary and secondary data.

[2]

8* Discuss the impact and consequences of data protection legislation on the marketing company when collecting, storing and processing data and information. [10]

9 The marketing company stores the data and information that has been collected.

(a) Explain how firewalls could maintain the security of the stored data.

[3]

Data analysis is carried out on the data and information to ensure the processing meets the needs of the client.

(b) Identify and describe TWO stages of data analysis.

1

2

[4]

When the data and information has been processed it can be transmitted.

(c) Explain, using an example, how the data could be transmitted.

[4]

Some of the clients of the marketing company have asked that the results are accessible to people who have a disability.

(d) Identify and describe TWO information styles that could be used to ensure the results are accessible to people with a disability.

1

2

10 A Level 1 data flow diagram (DFD) has been created to show an open system.

(a) What is meant by an open system?

[2]

(b) One connectivity rule for drawing a Level 1 data flow diagram (DFD) is that every flow must be labelled.

Identify TWO other connectivity rules.

1

2

[2]

END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

If additional answer space is required, you should use the following lined pages. The question numbers must be clearly shown in the margins – for example, 4 or 7(a).

[illegible]



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