



Oxford Cambridge and RSA

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

C382/2001



You must have:

- a clean copy of the Pre-release (inside this document)

Please write clearly in black ink.

Centre number

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Candidate number

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| | | | |
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First name(s)

Last name

Date of birth

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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 (*).
- This document has **12** pages.

ADVICE

- Read each question carefully before you start your answer.

| FOR EXAMINER USE ONLY | |
|-----------------------|------------|
| Question No | Mark |
| 1 | /8 |
| 2 | /5 |
| 3 | /9 |
| 4 | /10 |
| 5 | /5 |
| 6 | /3 |
| 7 | /9 |
| 8 | /10 |
| 9 | /17 |
| 10 | /4 |
| Total | /80 |

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.

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.....[3]

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

Information classification[1]

Justification
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.....
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.....[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]

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

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.....[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.

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.....[3]

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

Advantage

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Disadvantage.....

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[4]

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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.

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.....[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.

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.....[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.

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.....[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?

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.....[2]

(ii) Describe **one** difference between primary and secondary data.

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.....[2]

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.

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.....[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.

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.....[4]

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

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

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.....[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.

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2.....
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[6]

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

(a) What is meant by an open system?

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.....[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.....
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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).

A large vertical rectangular area containing 25 horizontal dotted lines for writing answers.



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