



Level 3 Cambridge Technical in IT

05838/05839/05840/05841/05842/05877 Unit 2: Global information

Time allowed: 1 hour 30 minutes

C382/2406

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



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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- Use black ink.
- 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.
- Use the Insert to answer the questions in Section A.
- Answer **all** the questions.

- 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 **16** pages.

- Read each question carefully before you start your answer.

Section A

Use the case study on **PHBC** in the **Insert** to answer the questions in this section.

1 When a course is booked, a pupil list is completed by the organiser.

(a) One information style used on the pupil list is text.

Complete the table to show **two other** information styles used and the column heading.

Information Style	Column Heading

[4]

(b) Explain why it is important that the information entered into the '**Details of allergies**' column is of good quality.

.....

.....

.....

.....

.....

..... [3]

2 The Data Protection Act (DPA) needs to be considered by PHBC as they store personal details.

(a) One action that needs to be taken to comply with the DPA is to keep data secure.

Identify **two other** actions that need to be taken by **PHBC** to comply with the DPA.

Action 1

.....

Action 2

.....

[2]

(b)* Discuss the impacts and consequences to **PHBC** of non-compliance with the DPA.

[10]

3 PHBC use the logical protection methods of encryption of data in transit and password.

(a) Identify when each logical protection method is used by **PHBC**.

Encryption of data in transit

.....

Password

.....

[2]

(b) Describe how each method protects the data.

Encryption of data in transit

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.....

.....

Password

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.....

.....

[4]

4 The talent shows are live streamed using a tablet.

(a) Identify **one** physical protection method that could be used to protect the tablet.

.....
..... [1]

(b) Identify the type of storage device the tablet would be included in.

.....
..... [1]

(c) Describe **one** advantage and **one** disadvantage to **PHBC** of using the tablet to live stream the talent shows.

Advantage

.....

.....

.....

Disadvantage

.....

.....

..... [4]

(d) Describe **one** advantage to the pupils' **parents and carers** of the talent show being live streamed.

.....

.....

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..... [2]

(e) Describe **one** disadvantage to **PHBC** of the talent show being live streamed.

.....

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..... [2]

5 The PHBC website contains activity instructional videos.

Describe **one** advantage and **one** disadvantage to **PHBC** of accessing and playing the activity instructional videos.

Advantage

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Disadvantage

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.....

[4]

Section B

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

An insurance company has a website. Customers can use the website to request a quote for new motor insurance. The calculated quote, including the customer details, is stored in the insurance company's secure cloud area for retrieval by the customer.

6

- (a)** Customers use the internet to access the insurance website.

Identify **two** characteristics of the internet.

Characteristic 1

.....

Characteristic 2

.....

[2]

- (b)** Customers can access the insurance website using a smart phone.

Identify the type of internet connection that would be used when using a smart phone to access the website.

.....

..... **[1]**

- (c)** The insurance website has static and dynamic webpages.

Compare static and dynamic webpages.

.....

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..... **[4]**

- (d) The company email address is shown on the website home page.

Identify the information classification the email address would be included in.

Justify your choice.

Classification

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Justification

.....

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.....

[4]

- 7 Customers enter the registration number of the car they want to insure. The registration number is checked against the DVLA database which holds details of all vehicles in the UK.

- (a) Explain why the registration number entered by customers should demonstrate the characteristic of validity.

.....

.....

.....

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.....

[3]

- (b) Identify the type of information source the data entered by the customer would be included in.

.....

.....

[1]

- (c) The DVLA database is an example of **big data**.

Explain, using an example, what is meant by the term **big data**.

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..... [4]

- (d) Identify which data type the data received from the DVLA would be included in.

.....

..... [1]

- (e) Identify the information management step that would be carried out when the insurance quote is being calculated.

.....

..... [1]

8

- (a)** The insurance company must ensure that the stored customer details demonstrate the information security principle of confidentiality.

Explain, using an example, what is meant by the information security principle of confidentiality.

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..... **[4]**

- (b)** Identify the legislation that relates to accessing the customers' data without permission.

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..... **[1]**

- (c)** Identify the Information Commissioners Office (ICO) code of practice that relates to how the customers' data can be used between organisations.

.....

..... **[1]**

- (d)*** The insurance company uses data analysis tools to analyse and manage the data collected during the quotation process.

Discuss the use of data analysis tools by the insurance company when analysing and managing their stored data.

[10]

- 9** The quotation process is being redeveloped. A L1 data flow diagram (DFD) will be created of the current process.

(a) Identify **two** components of a L1 DFD.

- 1
-
- 2
-
- [2]**

(b) One connectivity rule for drawing a L1 DFD is that data flows only in one direction.

Identify **two** other connectivity rules.

- 1
-
- 2
-
- [2]**

END OF QUESTION PAPER



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C382/2406