



Oxford Cambridge and RSA

Wednesday 13 January 2021 – Afternoon

Level 3 Cambridge Technical in IT

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

Time allowed: 1 hour 30 minutes

C382/2101



You must have:

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

Please write clearly in black ink.

Centre number

Candidate number

First name(s) _____

Last name _____

Date of birth

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

INFORMATION

- 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.

ADVICE

- Read each question carefully before you start your answer.

FOR EXAMINER USE ONLY	
Question No	Mark
1	/5
2	/5
3	/11
4	/10
5	/9
6	/17
7	/12
8	/6
9	/5
Total	/80

Answer **all** the questions.

Section A

This section relates to the case study on PhWSSE World sports event tour.

1 PhWSSE organise world sports tour events.

(a) Identify the category of information holders that PhWSSE would be included in.

..... [1]

(b) PhWSSE create an itinerary for each event tour. The itinerary would be included in the planning category of information.

Explain why the itinerary would be included in the planning category of information.

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..... [4]

2 The air freight distribution company can access the itinerary created by PhWSSE.

(a) Identify and describe the World Wide Web (www) technology which is used by the distribution company to access the itinerary.

Technology

Description.....

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..... [4]

(b) Identify **one** characteristic of this technology.

..... [1]

3 The tracking information shows the location of each case in real time.

(a) (i) Identify the information style that is applied to the tracking number.

..... [1]

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

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..... [3]

(b) It is important that the tracking information demonstrates the characteristic of reliable. Explain why the tracking information needs to be reliable.

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..... [4]

(c) Identify **one** other characteristic of information that needs to be demonstrated by the tracking information. Explain why this is important.

Characteristic.....
Explanation.....
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..... [3]

- 4 The security of the tracking information is maintained through the use of log-in details which are valid for any given tour.

Discuss, using examples, how policies can be used by PhWSSE to maintain the security of the tracking information during a tour.

[10]

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5 During each event, the results of each sports competition are uploaded to the event webpage on the PhWSSE website. Schools can access the results using an RSS feed.

(a) What is the purpose of the RSS feed?

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..... [2]

(b) Describe **one** advantage to the competing schools of using RSS feeds.

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..... [2]

(c) Describe **one** disadvantage to PhWSSE of using RSS feeds.

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..... [2]

- (d) When the tour has finished the results are collated. The PhWSSE website is updated to show the points and ranking for all schools in each sport across all events.

Identify the type of information source of the results used by PhWSSE, justifying your choice.

Information Source

Justification.....

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[3]

Section B

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

6 A crime prevention charity provides help and assistance to people who have been the victims of crime. The charity also collects and collates crime statistics for publication on neighbourhood websites.

(a) The charity collects some statistics from big data sets.

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

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

(b) Some of the statistics can be classified as sensitive.

Explain, using an example, what is meant by the term sensitive.

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..... **[3]**

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7 When the statistics have been collected, they are collated and analysed.

(a) Identify and describe **two** advantages of using a spreadsheet when collating the statistics.

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[6]

(b) When the statistics have been collated and analysed the visualisation of data analysis tool is used to present the data.

(i) Justify the use of the visualisation of data analysis tool to present the data.

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[4]

(ii) One type of visualisation of data analysis tool that could be used to present the data is a bar chart.

Identify **two** other types of visualisation of data analysis tools that could be used to present the data.

1.....

2.....

[2]

8 The statistics are stored securely but need to conform to the information security principle of availability.

(a) One information security risk to the stored data is intentional tampering with the data.

Identify and describe **one** other information security risk to the stored statistics.

Security Risk.....

Description.....

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[3]

(b) Explain what is meant by the information security principle of availability.

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..... [3]

9 The results of the collation and analysis of the statistics are presented on neighbourhood websites.

(a) Explain how the information style of audio can be used during the presentation of the statistics on the websites.

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..... [3]

(b) Identify **two** features that should be included on the neighbourhood websites to ensure compliance with the UN Convention on the Rights of Persons with Disabilities (UNCPRD).

Feature 1
Feature 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, 1(a) or 2(b).

A vertical line on the left side of the page is followed by 25 horizontal dotted lines, providing a ruled area for writing answers.

A series of horizontal dotted lines for writing, spanning the width of the page.

A series of horizontal dotted lines for writing, spanning the width of the page.

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