Modified Enlarged 24 pt

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

Wednesday 12 January 2022 – 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)

Please write clearly in black ink.

Centre number

Candidate number

First name(s) _____

Last name _____

Date of birth

D	D	M	M	Y	Y	Y	Y

READ INSTRUCTIONS OVERLEAF

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. You can use extra paper if you need to, but you must clearly show your candidate number, the centre number and the question numbers.

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 (*).

ADVICE

Read each question carefully before you start your answer.

Answer ALL the questions.

SECTION A

This section relates to the case study on Book_Shelve.

1 Book_Shelve use magnetic media to store a back-up copy of the books database.

    (a) Identify TWO magnetic media devices.

1 _____

_____

2 _____

_____

[2]

(b)   **Describe ONE advantage and ONE disadvantage to Book_Shelve of using magnetic media to store the back-up copy of the books database.**

Advantage _____

_____

_____

_____

_____

Disadvantage _____

_____

_____

_____

_____

[4]

2 **The available books are shown on the catalogue of books section of the website.**

(a)   (i)   Identify the type of information system structure the catalogue of books section on the Book_Shelve website would be included in.

_____ **[1]**

(ii) Describe TWO benefits of this type of information system structure.

1 _____

_____

_____

_____

2 _____

_____

_____

_____

[4]

(b) Only registered users can access the catalogue of books section of the website.

(i) Identify the logical protection method that is used to access the catalogue of books section of the website.

_____ **[1]**

(ii) **Explain how this logical protection method will increase the security of the catalogue of books section.**

_____

_____

_____

_____

_____ **[3]**

(c) **The schools can change the auto-generated password to be more memorable.**

Identify TWO rules that should be followed by the schools when changing the auto-generated password.

1 _____

_____

2 _____

_____

[2]

3* Some of the schools that order books from Book_Shelve are located in developing countries.

Discuss the access issues that could arise in these countries when the schools are ordering books from the Book_Shelve website. [10]

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4   The schools can query the catalogue of books to find books that meet their requirements.

(a)   Identify the information management process that the query would be included in. Describe the process that takes place.

Process   _____

Description   _____

_____

_____

_____

                                                              [4]

(b)   Identify the type of source of the data held in the books catalogue.

_____ [1]

5 (a) The photographs and statement from a school who have received books would be included in the external communication category of information.

Explain why the photographs and statement would be included in the external communication category of information.

_____

_____

_____

_____

_____

_____

_____ [4]

(b) Schools send videos to Book_Shelve to show the impact the books have had on their students. The videos use the schools' native languages.

The subtitle information style is used to ensure that English language speakers can understand the videos.

Justify the use of the subtitle information style.

_____

_____

_____

_____

_____

_____ [4]

SECTION B

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

6   A hairdressers has clients including men, women and children. They are considering a new computer system to manage the bookings and to enable clients to book their appointments through an online booking system.

   (a)   Identify the classification of information the appointments would be included in.

        Justify your choice.

Information _____

Justification _____

_____

_____

_____

[3]

(b) As part of the development process a Data Flow Diagram (DFD) will be created.

One component of a DFD is an external entity.

Draw and label symbols for TWO OTHER DFD components. [4]

Component	Label

(c) Qualitative data will be used in the online booking system.

Describe, using an example related to the booking system, what is meant by qualitative data.

_____

_____

_____

_____

_____

_____ [3]

7 The hairdressers has been advised about security breaches.

(a) One impact of a breach in information security is the loss of services and access to these services.

Describe TWO OTHER impacts that could occur as a result of a security breach.

1 _____

_____

_____

2 _____

_____

_____

[4]

(b) The hairdressers will be storing client details including names, addresses and contact details including mobile numbers and email addresses.

Explain why the client details would be included in the personal classification of information.

_____

_____

_____

_____

_____

_____

_____ **[4]**

(c) (i) Identify the legislation that relates to the storing of client data.

_____

_____ [1]

(ii) Describe TWO actions that should be taken by the hairdressers to comply with this legislation.

Action 1 _____

_____

_____

_____

Action 2 _____

_____

_____

_____ [4]

(d) The new booking system will enable clients to book their appointments online. The clients will be able to see the available days and times for the appointments. The client will be able to select the stylist they want to cut their hair and confirm the appointment. This appointment will then no longer be available for booking by other clients.

Discuss the consequences to the hairdressers if the client and booking information is of poor quality. [10]

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8 The hairdressers wants to use Green IT to increase its reputation with clients.

(a) Describe the purpose of Green IT.

_____

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_____

_____

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_____ [3]

(b) Describe TWO benefits to the hairdressers of using of Green IT.

Benefit 1 _____

_____

_____

_____

Benefit 2 _____

_____

_____

_____

[4]

END OF QUESTION PAPER

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Version 2