



Oxford Cambridge and RSA

Monday 17 January 2022 – Morning

Level 3 Cambridge Technical in IT

05839/05840/05841/05842/05877 Unit 3: Cyber security

Time allowed: 1 hour

C384/2201



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.
- 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.
- Use the Insert to answer Questions 1 and 2.

INFORMATION

- The total mark for this paper is **60**.
- 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 | /29 |
| 2 | /10 |
| 3 | /13 |
| 4 | /4 |
| 5 | /4 |
| Total | /60 |

Section A

Answer **all** the questions.

- 1 (a) When E James installed the password manager app, the app gave some hints and tips on how to secure their phone including how to prevent access to the data stored on their phone.

Two of the hints and tips they were given were to:

- make sure that their phone is running the latest operating system (OS) by installing updates
- install an anti-malware app.

- (i) Explain how each of these protect their data.

OS Updates

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Anti-malware

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[4]

- (ii) Identify and explain **two** other methods that could be used to prevent access to data stored on the phone.

Method 1

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Description

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Method 2

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Description

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[6]

- (b) (i) Two types of cyber security incident that could be caused by an individual obtaining the passwords that are stored in the password manager are account lockout and destruction.

Describe these types of cyber security incident.

Account Lockout

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Destruction

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[4]

- (ii) Identify **one** other type of cyber security incident that could be caused by an individual obtaining the passwords stored in the password manager.

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..... [1]

- (c) Threats to the data stored on E James's phone can be classified as accidental or intentional.

Describe what is meant by an accidental and an intentional cyber security threat.

Accidental

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Intentional

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[4]

(d) Describe **two** methods that could be used during a cyber attack, to obtain the passwords stored in the password manager.

1

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2

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[4]

(e) A cyber security attack has taken place and E James is advised that they need to reduce the impact of the theft of the passwords.

(i) Describe **one** action that could be made to reduce the impact of the theft of the passwords.

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..... [2]

(ii) Explain how the action you have described above will reduce the impact.

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

(iii) Identify **one** other action E James could take.

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

(b) Identify **one** other type of attacker.

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

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, 2 or 3(c).

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, starting from the top of the page and extending to the bottom, with a solid vertical line on the left side.



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