

Tuesday 21 May 2019 – Afternoon

LEVEL 3 CAMBRIDGE TECHNICAL IN IT

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

Time allowed: 1 hour

C384/1906



You must have:

- a clean copy of the pre-release (Insert C387)

Please write clearly in black ink.

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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INSTRUCTIONS

- The Insert will be found inside this document.
- Use black ink.
- Answer **all** the questions.
- Write your answer to each question in the space provided.
- Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).

INFORMATION

- The case study should be used to answer questions in Section A.
- 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 the question marked with an asterisk (*).
- This document consists of **8** pages.

FOR EXAMINER USE ONLY	
Question No	Mark
1	/31
2	/10
3	/6
4	/5
5	/4
6	/4
Total	/60

Answer **all** the questions.

Section A

This section relates to the case study on Progressive Moniez.

1 The cyber security department of Progressive Moniez has been contacted after the company was the victim of an attack. The first step is to complete a cyber security incident report.

(a) Describe the purpose of a cyber security incident report.

.....

.....

.....

.....**[2]**

(b) Use the template below to complete the cyber security incident report for the attack committed against Progressive Moniez in January 2019. Part of it has already been completed.

Cyber Security Incident Report	
Title	[1]
Date	<i>January 18th 2019</i>
Target	[1]
Type of Incident(s)	[1]
Description of Incident	<i>Funds were taken from one of the cryptocurrencies stored and customer details were also accessed.</i>
Type of attacker(s)	[1]
Purpose of Incident(s)	[2]
Techniques used by attacker(s)	[2]
Impact on the business	[2]

(c) The organisation, Progressive Moniez, was one target of the attack. Identify **two other** targets of the attack for each, explain why they would have been targeted.

Target 1

.....

Reason

.....

.....

.....

Target 2

.....

Reason

.....

.....

.....

[6]

(d) Describe **three** features of an intrusion prevention system (IPS) that could be used by Progressive Moniez to protect its network.

Feature 1

.....

.....

.....

Feature 2

.....

.....

.....

Feature 3

.....

.....

.....

[6]

(b) Identify **one other** method that Daniil could use to protect his data.

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

5 Identify and describe **two** possible motivations of a cyber attacker.

Motivation 1.....
Description.....
.....
.....
Motivation 2.....
Description.....
.....
.....[4]

6 Explain **two** reasons why a company might want to employ an ethical hacker.

Reason 1.....
.....
.....
Reason 2.....
.....
.....[4]

END OF QUESTION PAPER

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