

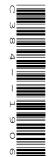
Tuesday 21 May 2019 – Afternoon

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 clea	arly in black ink.
Centre number	Candidate number
First name(s)	
Last name	
Date of Birth	D D M M Y Y Y

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.

	AMINER 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.

was	the victim of an att	ack. The first step is to complete a cyber security incident report.	
(a)	Describe the purpo	ose of a cyber security incident report.	
			[2]
(b)		below to complete the cyber security incident report for the attack Progressive Moniez in January 2019. Part of it has already been	
		Cyber Security Incident Report	
Title	2		[1]
Date	е	January 18 th 2019	
Tarç	get		[1]
Тур	e of Incident(s)		[1]
Des	scription of Incident	Funds were taken from one of the cryptocurrencies stored and customer details were also accessed.	
Тур	e of attacker(s)		[1]
Pur	pose of Incident(s)		
			[2]
	hniques used by cker(s)		
			[2]
	act on the		

[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]

(e)*	Evaluate the benefits to Progressive Moniez of using monitoring and control systems for cyber security.
	[7]

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Section B

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

3 (a) The diagram below shows three terms associated with cyber security and three descriptions.

Draw a line to connect each term to the correct description.

Term
Confidentiality
Integrity
Availability

Description
An assurance that the information is trustworthy and accurate
A guarantee of access to the information which is required
Protecting the information from being disclosed to unauthorised individuals

[3]

(b) Identify the type of cyber security incident from the definition given.

Definition	Туре
Making the data irretrievable	
Altering the data	
Account lockouts or denial of service	

[3]

		•
4	(a)	Daniil stores his data on a memory stick. He is concerned that if he loses the memory stick, his data could still be accessed. He has been told that he should encrypt the data on the memory stick.
		Explain how encryption could be used to protect the data on the memory stick.

				•••••				
-								
ldent	ify and descri	be two pos	sible mot	ivations of	a cyber att	acker.		
Motiv	vation 1							
Desc	cription							
Motiv	vation 2							
Desc	cription							
	ain two reaso							
Expla		ns why a co	ompany n	night want	to employ a	an ethical h	acker.	
Expla	ain two reason	ns why a co	ompany n	night want	to employ a	an ethical h	acker.	
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Expla	ain two reason	ns why a co	ompany n	night want	to employ a	an ethical h	acker.	

END OF QUESTION PAPER



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