

	Cer	itre int	umber

Candidate	Number
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ADVANCED SUBSIDIARY (AS) General Certificate of Education 2014

Information and Communication Technology

Assessment Unit AS 1 assessing Module 1: Components of ICT

[AP111]

MONDAY 9 JUNE, AFTERNOON



TIME

2 hours, plus your additional time allowance.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.

Complete in blue or black ink only. **Do not write in pencil or with a gel pen.** Answer **all six** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 120 marks including a maximum of 5 for quality of written communication.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

8756.05 ML

	Many supermarkets use loyalty cards to reward regular customers with special offers.					
	Cus	tomers can apply for a loyalty card by completing an application form.				
	Deta	ails from these forms are keyed into a database.				
	(a)					
		A direct data source				
		An indirect data source				
		[4]				
	(b)	Describe one benefit and one drawback of using a direct data source.				
		Benefit				
		Drawback				
8756.0)5 ML	[4]				

•	Data verification is used when data is entered into the database.		Exami Marks
	Identify two methods of data verification.		
	1. 2.		
		(-)	
l)	Three fields on the application form are shown below.		
	Customer number 12345 Town Sometown Post code BB2 8ZZ		
	Choose the most suitable field for each of the following validation checks. Explain each choice:	n	
	Type check		
	Field		
	Explanation		
	Check digit		
	Field		
	Explanation		
	Format check		
	Field		
	Explanation		Total Q

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(a)	The students use the Internet to obtain information for the project.		
(u)			
	Describe the main features of a typical Internet browser.		
	<u> </u>		
		1	
	[1]		
	[4]		
The	e students obtain a hard copy of a newspaper article about the school.		
	e students obtain a hard copy of a newspaper article about the school. Explain how the text of the article could be input to the computer using		
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(c)		e newspaper contains an old photograph of the school. The stograph has been converted to a digital format.	Examine Marks	er Only Remark
	(i)	Explain how computer software could be used to enhance the photograph.		
		[4]		
			[T	
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(ii)	Describe the main features of the following file formats for storing images.	Examine Marks	er Only Remark
	JPEG		
	Bitmap		
	[6]		
		Total Que	estion 2
8756.05 ML			

3	The	internal memory of a computer includes RAM and cache memory.	Examin Marks	er Only Remark
	(a)	Explain the purpose of each of the following.	marko	romark
		RAM		
		Cache memory		
		[6]		
			[Tur	n over
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To tembra of the control of the cont

				Marks
	Expla	ain how data is written to a hard disk and read from a hard disk		
			[5]	
			[5]	
(c)	A cor	nputer requires an operating system and application software.	[5]	
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(ii)	Explain what is meant by application software.			er Only
			Marks	Remark
		[2]		
		[၁]		
(iii)	Describe two drawbacks of using open source software.			
(111)				
	1			
	2			
		[4]		
		[4]		
			Total Qu	estion 3
			[T	.
ML			[lur	n ove

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4	A co	ompany uses a local area network (LAN).	Examin Marks	er Only Remark
	(a)	Describe the main features of a star network.	Walks	Remark
		[4]		
	(b)	Describe the impact of cable failure on		
		A star network		
		A bus network		
		[4]		
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(C)	Describe the purpose of each of the following network resources.	Exar Mark	niner Only Remark
	An IP address	_	
		_	
		_	
	A router		
		_	
	Proxy server	_	
		_	
	[6	o]	
(d)	The company uses an intranet.		
	Explain what is meant by an intranet.		
		_	
		_	
		_	
		_	
	[3		Question 4
		Total	Question 4

To Render I To Ren

5	An	organisation requires new software.	Examir Marks	ner Only Remark
	(a)	Describe two benefits of custom built software.		
		1		
		2		
		[4]		
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		e new software is developed in stages by a number of IT fessionals.	Exam Marks	iner Only Remark
	(i)	Explain what happens during each of the following stages:		
		User requirements stage		
			_	
		Implementation stage		
		[6]	
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(ii)	Describe the main responsibilities of each of the following during software development.	Examiner Only Marks Remark
	The project manager	
	The end user	
	[6]	
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(c)	Tec	chnical documentation is produced for the new software.	Examiner Only Marks Remark
	(i)	Identify three of the main components of technical documentation.	
		1	
		2	
		3	
		[3]	
	(ii)	Name and describe another type of documentation which will be produced for the new software.	
		Name	
		Description	
		[5]	
			Total Question 5
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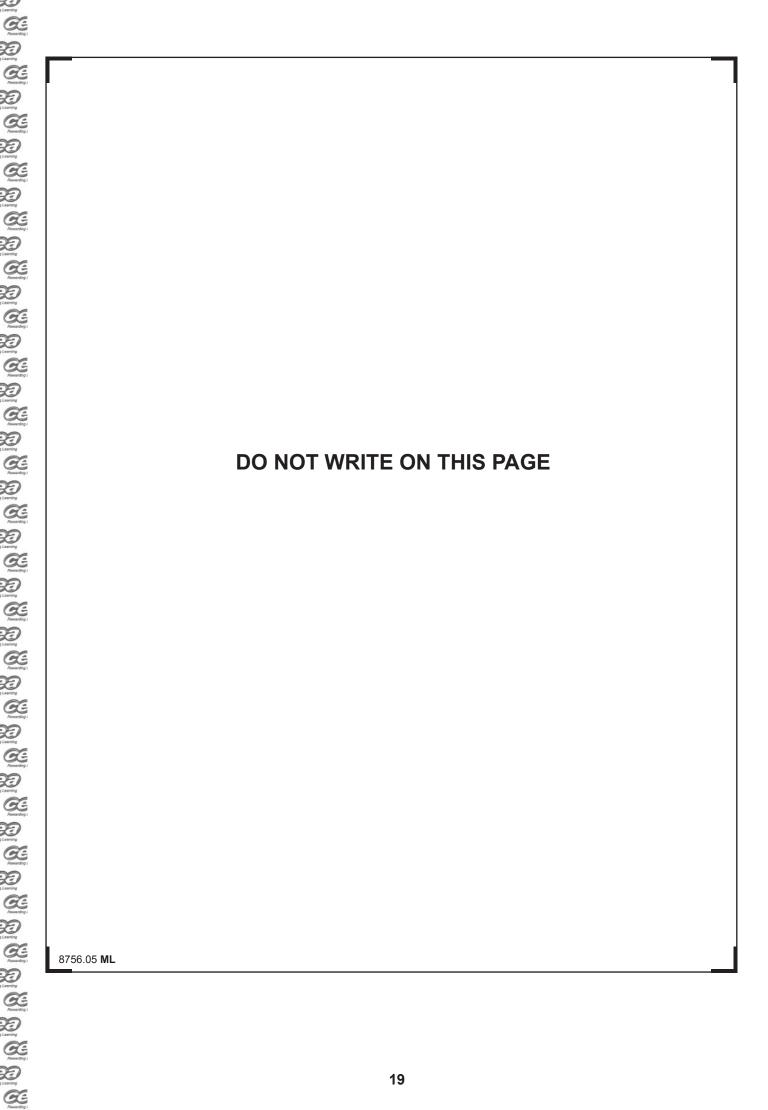
6		curity is an important consideration for companies which sell their ducts over the Internet.	Examiner Marks F	Only
	(a)	Explain how each of the following can increase security over the Internet.		
		https		
		Paypal		
		[8]		
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(b)	Explain how each of the following computer viruses can affect a computer system.	Examin Marks	er Only Remark
	A logic bomb		
	A macro virus		
	[6]		
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(c)	Describe the main features of a typical disaster recovery plan.		Examin Marks	er Only Remark
		_ [4]		
_				
_	THIS IS THE END OF THE QUESTION PAPER			
			Total Qu	estion 6
			Quality o	of written nication
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DO NOT WRITE ON THIS PAGE

1	For Examiner's use only		
Question Number	Marks		
1			
2			
3			
4			
5			
6			
QWC			

Total Marks

Examiner Number

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