

	Cer	itre int	ınıbei

Candidate Number

ADVANCED SUBSIDIARY (AS) General Certificate of Education 2014

Information and Communication Technology

Assessment Unit AS 1 assessing

Module 1: Components of ICT

[AP111] *AP111*

MONDAY 9 JUNE, AFTERNOON

TIME

2 hours.

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.

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1		ny supermarkets use loyalty cards to reward regular customers with cial offers.	Examiner Only Marks Remark
	Cus	stomers can apply for a loyalty card by completing an application form.	
	Det	ails from these forms are keyed into a database.	
	(a)	By referring to the application form discussed above, explain what is meant by	
		A direct data source	
		An indirect data source	
		[4]	
	(b)	Describe one benefit and one drawback of using a direct data source.	
		Benefit	
		Drawback	
		F 41	
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	entify two methods of data verification.		
1.			
2.		[2]	
) Th	aree fields on the application form are shown below.		
	Customer number 12345 Town Sometown Post code BB2 8ZZ		
	entify and justify the most suitable field for each of the followir lidation checks.	ng	
Ту	pe check		
Fie	eld		
Ju	stification		
Ch	neck digit		
Fie	eld		
Ju	stification		
Fo	ormat check		
Г:,	eld		
ΓIE	stification		
			Total 0

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udents have been asked to research the history of their school as part of GCSE project. The students use the Internet to obtain information for the project. Describe the main features of a typical Internet browser.	Examiner On Marks Rem
Describe the main features of a typical Internet browser.	
[41	
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 OCR software.	
[4]	

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	(c)		e newspaper contains an old photograph of the school. The stograph has been converted to a digital format.	Examin Marks	er Only Remark	
		(i)	Explain how computer software could be used to enhance the photograph.			
						ì
						ì
			[4]			
						ì
						i
						ì
						ì
						ì
						ì
						ì
				[Tur	n ovei	
875	6				5461	



_				
	(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
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3	The	e internal memory of a computer includes RAM and cache memory.	Exami	ner Only
		Explain the purpose of each of the following.	Marks	Remark
		RAM	_	
			_	
			_	
			_	
		Cooks many		
		Cache memory	_	
			_	
			_	
		[[6]	
l	_		[Tur	n over
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				Marks	R
	Ехр	plain how data is written to and read from a hard disk.			
			[5]		
			[5]		
(c)	A co	omputer requires an operating system and application software.	[5]		
(c)			[5]		
(c)		omputer requires an operating system and application software.	[5]		
(c)		omputer requires an operating system and application software.	[5]		
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(c)		omputer requires an operating system and application software.	[5]		
(c)		omputer requires an operating system and application software.	[5]		
(c)		omputer requires an operating system and application software.	[5]		
(c)		Describe the main features of a multi-tasking operating system.			
(c)		Describe the main features of a multi-tasking operating system.	[5]		

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Remarks



(ii)	Explain what is meant by application software.		Examiner Only Marks Remark
		[0]	
(iii	i) Describe two drawbacks of using open source software.1		
	2		
		[4]	
			Total Question 3
			23333113
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4	A c	ompany uses a local area network (LAN).	Examiner Only Marks Rema	
	(a)	Describe the main features of a star network.	Marks Rema	I K
		[4]		
	(h)	Describe the impact of cable failure on		
	(6)			
		A star network		
		A bus network		
		[4]		
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	(c)	Describe the purpose of each of the following network resources.	Examii Marks	ner Only Remark
		An IP address		
		A router		
		Proxy server		
		T TOXY Server		
		[6]		
	(d)	The company uses an intranet.		
		Explain what is meant by an intranet.		
		[3]		
				uestion 4
8756			[Tur	n over



5	Δn	organisation requires new software.	Evamir	ner Only
3			Marks	Remark
	(a)	Describe two benefits of custom built software.		
		1		
		2		
		[4]		
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Remarks



	(b)		e new software is developed in stages by a number of IT fessionals.	Examin Marks	er 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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) Tec	chnical documentation is produced for the new software.		er Only Remark
(i)	Identify three of the main components of technical documentation.	Marks	Remark
	1		
	2		
	[3]		
(ii)	Name and describe another type of documentation which will be produced for the new software.		
	Name		
	Description		
	[5]		
		Total Qu	estion 5
		[Tur	n over
	(i)	2	(i) Identify three of the main components of technical documentation. 1



6	Sec	curity is an important consideration for companies which sell their ducts over the Internet.	Examin Marks	er Only Remark
	(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.	Examiner Only Marks Rema	
		A logic bomb		
		A macro virus		
		[6]		
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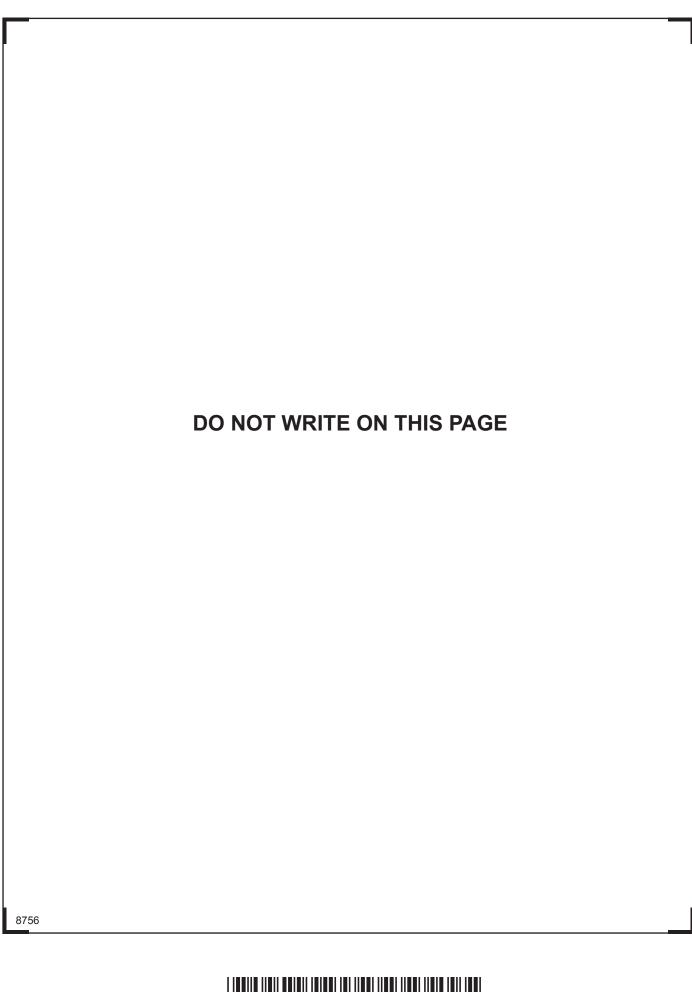


(c)	Describe the main features of a typical disaster recovery plan.		Examin Marks	er Onl Rema
		[4]		
_		•		
	THIS IS THE END OF THE QUESTION PAPER			
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For Examiner's use only		
Question Number	Marks	
1		
2		
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Total Marks

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