Rewarding Learning	Centre Number
ADVANCED SUBSIDIARY (AS) General Certificate of Education 2013	Candidate Number
Information and Communication Technology	
Assessment Unit AS 1 assessing Module 1: Components of ICT	
[AP111] TUESDAY 11 JUNE, AFTERNOON	*AP111*

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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Depai	rtment	Target Sales (£)	Actual Sales (£)	
Men		15000	12341	
Wome	en	20 000	21 304	
Child	ren	10 000	10312	
a) (i)	By referring	g to the table , explain wha	at is meant by	
	Data			
	Information			
			[4]	
(ii)	By referring is meant by		s Department, explain what	
		-		
			[3]	

30

A secretary enters the sales figures into the following spreadsheet.

Examiner Only

Marks Remark

	D	Е	F	G
3	Department	Target Sales (£)	Actual Sales (£)	Target achieved?
4	Men	15000	12314	Ν
5	Women	20000	21304	Y
6	Children	10000	10312	Y
7				
8	Total	45000	43930	Ν

(b) Describe how the contents of each of the following cells could be calculated by the spreadsheet.

8			
4			
			[4]
			[4]

- (c) The contents of cell F4 should be 12341.
 - (i) Name and describe the type of error which has occurred.

		[Turn o	ver
	[2]		
Description			
Name			



(ii)	Explain how verification can be used to detect errors.	Examiner (Marks Re
	[3]	

(d)	The product code for a particular item is 45667 , where 7 is the modulus 11 check digit.		Examine Marks	er Only Remark
	Show how this check digit is calculated.			
		_		
		_		
		_		
		_		
		_		
		_		
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		_		
		-		
			Total Que	estion 1
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(a)	Explain how each of the following is used in a typical computer.			
. /	ROM			
	RAM			
		[,]		
(b)	Name and describe two of the other main components of the CPU.			
	Name			
	Description			
	Name			
	Description			
		[6]		
			Total Q	Jesti

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3	Ah	otel	has a number of interactive terminals for use by guests.	Examin	er Only
l			ch terminal can be used to access the Internet.	Marks	Remark
		(i)	Describe the main features of a typical web browser.		
			[4]		
		(ii)	Describe the main features of a typical search engine.		
			[4]		
8833				[Tur	n over

(b)	Identify two hardware components required specifically for speech input.	
	1	
	2	[2]
(c)	Identify two software components required specifically for speech input.	
	1	
	2	[2]
(d)	Identify two benefits and two drawbacks of using speech input.	
	Benefits	
	1	
	2	
	Drawbacks	
	1	
	2	
		[4]

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The speech input application was developed using open source software.	Examin Marks	er Only Remark
Explain what is meant by open source software.		
[4]		
L J		
	Total O	lestion 3
	[Tur	n over
	Explain what is meant by open source software.	software. Image: Control of the second s

(a)	Name and describe two different types of LAN topology.		Marks	Rema
	Name			
	Description	_		
		_		
		_		
	Name			
	Description			
		_		
		6]		
		L	I	
3				

(b)	Explain the purpose of each of the following network resources.	Examiı Marks	ner Only Remark
	Switch		
	Proxy server		
	[6]		
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(c)	тс	P/IP is the main communication protocol used on the Internet.	Examiner Marks R
	(i)	Explain what is meant by a communications protocol.	
			_ [3]
	(ii)	Describe the main features of the IP part of this protocol.	
			_ [3]
5			

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(d)	Describe two reasons why the company should consider selling its products using the Internet.	Examir Marks	er Only Remark
	1		
	1		
	2		
	<u>ــــــــــــــــــــــــــــــــــــ</u>		
	[4]		
		Total O	Logica 4
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	organisation introduces a new database system.		Marks	Ren
(a)	During the development of the system, a feasibility study was carried out.	ea		
	Explain what is meant by social feasibility.			
		[3]		
(b)	Describe what happens during the design stage of an ICT system.			
		[6]		

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(c)	The information system was tested.	Examin Marks	er Only Remark
	Describe the main features of		
	Application testing		
	Acceptance testing		
	[6]		
		[Tur	n over



(d)	Describe two advantages of a custom-built system over an off-the-shelf system.		Examiner Onl Marks Rema	
	1			
	2			
	[
(e)	Explain what happens during system changeover.			
	[[4]		
		Т	otal Question	n
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(a) Describe the main features of EFTPOS technology.	Marks	Remark
	 -]	
	-	
[4	-	
	·]	
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e of EFTPOS for:	Examiner Only Marks Remark	
		The Constant
[8]		
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		y Law
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)	Describe one benefit and one drawback of this use of EFTPOS for:	N
	The supermarket	
	Benefit	
	Drawback	
	Customers	
	Benefit	
	Drawback	
	[8]	

Sup	permarkets use RFID technology.		Examin Marks	er Or Ren
(c)	Describe the main features of RFID technology.			
		_		
		_		
		_		
		_		
		_		
	[4]		
	L	.1		
(d)	Describe one advantage of using RFID instead of barcode for stock control.			
		_		
		_		
	[2]		
	THIS IS THE END OF THE QUESTION PAPER		Total Qu	uestio
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5	
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Total Marks	

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Examiner Number

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