

	OC.	 ITAIIIDCI

ADVANCED SUBSIDIARY (AS)

General Certificate of Education 2013

C	Candidate Numbe						

Centre Number

Information and Communication Technology

Assessment Unit AS 1
assessing
Module 1: Components of ICT
[AP111]

TUESDAY 11 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.

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.

8833.05 ML

)epar	tment	Target Sales (£)	Actual Sales (£)	
Men		15 000	12341	
Wome	en	20 000	21304	
hildr	en	10 000	10312	
) (i)	Refer to the	table.		
(-)				
	Explain the t	erm data		
	Franksin the at			
	Explain the t	erm information		
	Explain the t	erm information		
	Explain the t	erm information		
	Explain the t			
	Explain the t			
(ii)				
(ii)	Refer to the	figures for the Men's Depa	artment.	[4]
(ii)	Refer to the		artment.	[4]
(ii)	Refer to the	figures for the Men's Depa	artment.	[4]
(ii)	Refer to the	figures for the Men's Depa	artment.	[4]
(ii)	Refer to the	figures for the Men's Depa	artment.	
(ii)	Refer to the	figures for the Men's Depa	artment.	
(ii)	Refer to the	figures for the Men's Depa	artment.	

8833.05 **ML**

	E	F	G	
D Departme		I	Target achieved?	
Men	15 000	12314	N	
Women	20 000	21304	Y	
Children	10 000	10312	Y	
Total	45 000	43930	N	
How we	ere the contents of ce	ll G4 calculated?		
(i) Na Na		type of error which h	as occurred.	

To Render I To Ren

(ii)	Explain how verification can be used to detect errors.	Examiner Only Marks Remark
	[3]	
8833 05 M L		

	The product code for a particular item is 45667 , where 7 is the modulus 11 check digit.	Examin Marks	er Only Remark
	Show how this check digit is calculated.		
	[6]		
		Total Qu	estion 1
L		[Tur	n over

2 Or	ne of the main components of the CPU is internal memory.	Examin Marks	er Only Remark
(a)	Explain how each of the following is used in a typical computer.		
	ROM		
	RAM		
	[4]		
41			
(D)	Name and describe two of the other main components of the CPU.		
	Name		
	Description		
	Name		
	Description		
	[6]	Total Qu	unstion ?
		Total Qu	iesuuti Z
833.05 N	L		

3	A h	otel	has a number of interactive terminals for use by guests.	Examiner Marks R	Only Remark
	(a)	Eac	ch terminal can be used to access the Internet.		
		(i)	Describe the main features of a typical web browser.		
			[4]		
			[4]		
		(ii)	Describe the main features of a typical search engine.		
			[4]		
	05 MI			[Turn	over

	hotel guests can access the terminals using speech input.		Marks	Rem
(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]		

Removariles

2 Leaving

Removariles

Parameter Construction Cons

Research

Discounting

Gardine

Research

Research

Research

Research

Research

Diplometry

Garden

Diplometry

Garden

Research

Diplometry

Garden

Research

Research

Day

Learning

Research

Page

Learning

Research

Rosecute

De g Learning
Rewardin

Description of the second of t

G. Rowards

Daning Learning Researcing

Parameter Parame

Remarks

Remarks

Remarks

(e)	The speech input application was developed using open source software.	Examir Marks	ner Only Remark
	Explain what is meant by open source software .		
	[4]		
		Total Qu	uestion 3
3.05 ML		[Tur	n ove

Totality

Totali

4	A c	ompany's LAN is connected to the Internet.	Examiner Only Marks Remark
	(a)	Name and describe two different types of LAN topology.	
		Name	
		Description	
		NI	
		Name	
		Description	
		[6]	
0033	05 MI		

b)	Explain the purpose of each of the following network resources.	Examir Marks	er Only Remark
	Switch		
	Proxy server		
	[6]		
		[Tur	n ove

(c) T	CP/IP is the main communication protocol used on the Internet.		Examiner Only Marks Remark
(i	Explain what is meant by a communications protocol .		
		_ [3]	
(i) Describe the main features of the IP part of this protocol.		
		_ [3]	
8833.05 ML			

(d)	Give two reasons why the company should consider selling its products using the Internet.	Exam Marks	iner Only Remark
	1	-	
		-	
		-	
	2		
		-	
		-	
	[4]		
		Total 0	Question 4
8833.05 ML		[Tu	rn over

An	organisation introduces a new database system.	_		er Only Remark]
(a)	During the development of the system, a feasibility study was carried out.	d			
	Explain what is meant by social feasibility .				
		[3]			
(b)	Describe what happens during the design stage of an ICT system.				
		[0]			I
	(a)	out. Explain what is meant by social feasibility. (b) Describe what happens during the design stage of an ICT system.	(a) During the development of the system, a feasibility study was carried out. Explain what is meant by social feasibility. [3] (b) Describe what happens during the design stage of an ICT system.	(a) During the development of the system, a feasibility study was carried out. Explain what is meant by social feasibility. [3] (b) Describe what happens during the design stage of an ICT system.	(a) During the development of the system, a feasibility study was carried out. Explain what is meant by social feasibility. [3] (b) Describe what happens during the design stage of an ICT system.

(c)	The information system was tested.	Examiner Only
	Describe the main features of:	Marks Remark
	Application testing	
	Acceptance testing	
	[6]	
8833.05 ML		[Turn over

(d)	Describe two advantages of a custom-built system over an off-the-shelf system.	Examiner Only Marks Remark
	1	
	2	
	[4]	
(e)	Explain what happens during system changeover.	
	[4]	
		Total Question 5
8833.05 ML		

6	EF	TPOS technology is used extensively in supermarkets.	Examin Marks	er Only Remark
	(a)	Describe the main features of EFTPOS technology.		
		[4]		
8833	.05 M L		[Tur	n over

To Render I To Ren

((b)	Describe one benefit and one drawback of this use of EFTPOS for:	Examiner Only Marks Remark	k
		The supermarket		
		Benefit		
		Drawback		
		Customers		
		Benefit		
		Drawback		
		[8]		
8833.0	5 ML			

			_
Supermarkets use RFID technology.		Examiner Only Marks Remai	
(c) Describe the main features of RFID technology.			
	[4]		
	[4]		
(d) Describe one advantage of using RFID instead of barcode for	stock		
control.			
	[2]		
TUIC IO TUE END OF THE OUESTION DADE	_	Total Question	6
THIS IS THE END OF THE QUESTION PAPER	~		
		Quality of writte	
		Communicatio	_
0.05 ML			

To carrier

To car

DO NOT WRITE ON THIS PAGE

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

Total Marks

Examiner Number

Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright holders may have been unsuccessful and CCEA will be happy to rectify any omissions of acknowledgement in future if notified.

113176