



ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2010

Candidate Number

Centre Number

Information and Communication Technology

Assessment Unit AS 1

assessing

Module 1: Components of ICT

[AW111]

MONDAY 24 MAY, MORNING



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. 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.

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

Marks	Total Marks	
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=

shopping preferences. A screen from the questionnaire is shown below. **Customer Questionnaire** First name Surname Date of birth DD/MM/YY **Email address Confirm Email address** * Required Save (a) Explain what is meant by a direct data source in this case. [2] **(b)** Describe one benefit and one drawback of an indirect data source. Benefit _____ Drawback

An on-line retailer asks customers to complete a questionnaire about

Examiner Only

(C)	ine	data provided by customers is validated.		Examin Marks	er Only Remark
		referring to fields in the screen above, explain each of the owing validation checks.			
	Pre	sence check			
	<u>—</u>	nge check			
	Fori	mat check			
(d)	Data	a verification is used in the questionnaire.			
	(i)	Explain the purpose of data verification.			
			[2]		
	(ii)	Describe two examples of data verification used in the screen shown.			
		1	_		
		2	_		
			[4]		

	s the report to identify new product lines.	Marks
An extract from	the report is shown below.	
Which of the fo	ollowing are you most likely to purchase?	
Product	Response (%)	
Health & Beaut Jewellery DIY Sports None		
(i) Explain wha	at is meant by data.	_
		_
		[2]
ii) By referring	to this table, explain what is meant by	[2]
		_
	to this table, explain what is meant by	
	to this table, explain what is meant by	
Information	to this table, explain what is meant by	
Information	to this table, explain what is meant by	
Information	to this table, explain what is meant by	
Information	to this table, explain what is meant by	

Union (ITU). Explain the purpose of the ITU.		
Explain the pulpose of the 110.		
	[4]	

organisation's network consists of a LAN connected to the Internet.	Examiner Only Marks Remark
Explain how data is transferred on	
A bus network	
	-
	-
	-
	-
A star network	
	-
	-
	-
	-
network.	
A firewall	-
	-
	-
A switch	-
	-
	-
	Explain how data is transferred on A bus network A star network Describe how each of the following will be used in the organisation's network. A firewall A switch

	A proxy server		Examiner Only
			Marks Remar
		_	
		_	
		[6]	
	e organisation wishes to set up a video conference to inform a group tomers about a new product.	of	
(c)	Identify four hardware and two software resources which are required specifically for video conferencing.		
	Hardware		
	1		
	2		
	3		
	4		
	Software	_	
	1	_	
	2	[6]	
(d)	Describe three features of email which could be used instead to inform the customers of the new product.		
	1	_	
		_	
		_	
		_	
	2		
		_	
		_	

	3	Examiner O
		Marks Ren
		[6]
		[0]
3 A	Access rights and data encryption can be used to keep data se	ecure.
((a) Explain what is meant by	
	Access rights	
	Data encryption	
		[0]
		[6]
_		
((b) Describe one other method of keeping data secure.	
		[4]

Explain what is r	neant by			
CAD				
CAM				
CAIVI				
			[4]	
			[4]	
	its for a car manufact			
State two benef	its for a car manufac	turer of each of the	following	
State two benef		turer of each of the	following	
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State two benefication benefi	its for a car manufact	turer of each of the	following	

(c)

Dod	cumentation is produced during the development of an ICT system.		Examin Marks	er Only Remark
(a)	Name two different types of documentation and identify two components of each.			
	Name			
	Component 1			
	Component 2			
	Name			
	Component 1			
	Component 2	[6]		
The	e new system undergoes testing.			
(b)	Explain what happens during each of the following.			
	Application testing			
	Acceptance testing			
		[6]		

5

	us of lot	 Marks	Ren
entify three of the responsibilit			

(c)

E	Explain how a typical computer uses		
F	ROM		
_			
-			
-			
-			
(Cache memory		
_			
_			
_			
-			
	Name another type of internal memory and describe how it will be used in a typical computer.	[4]	
ι	Name another type of internal memory and describe how it will be		
\ N	Name another type of internal memory and describe how it will be used in a typical computer. Name		
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\ N	Name another type of internal memory and describe how it will be used in a typical computer. Name		
L N	Name another type of internal memory and describe how it will be used in a typical computer. Name		
\ N	Name another type of internal memory and describe how it will be used in a typical computer. Name		

6

(c)	The	e software of the computer consists of an operating system and er software.	Examiner Only Marks Remar	k
	(i)	Describe the main features of		
		A multi-tasking operating system		
		A multi-user operating system		
		[6	5]	
	(ii)	Describe the main features of		
		Presentation software		

	vveb authoring soπware		Examin	
			Marks	Remark
	Internet browser software			
		[9]		
		— [₀]		
(d)	The computer's user has installed some open source software.			
()				
	Describe the main features of open source software.			
	·			
	-			
		[4]		
		ניין		
			QV	VC
		_		
	THIS IS THE END OF THE QUESTION PAPE	:R		

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