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ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2009

## Information and Communication Technology

Assessment Unit AS 1

assessing

Module 1: Components of ICT

[AW111]

**THURSDAY 4 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. Answer **all five** 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		
QWC		

Total	
Marks	

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		cretary of a historical society is word processing an article about building.	Examiner Only  Marks Remark
(a)		e secretary obtains information about the building using the ernet.	
	(i)	Describe the main features of an Internet browser.	
		[3]	
	(ii)	Describe how the secretary could use a search engine in this case.	
		[3]	

	e secretary uses a scanner to input a newspaper cutting which udes a photograph of the building.	า	Examiner O
(i)			
		[3]	
(ii)	Explain how the computer could be used to enhance the photograph.		
		[4]	

RTF					
					_
					_
					_
JPFG					
01 LO <u></u>					
					_
					_
					_
					[6]
escribe how e	-mail could be	used to sen	d a draft of the	article to	
		used to sen	d a draft of the	article to	
	f the society.		d a draft of the		_
	f the society.				_
	f the society.				— —
	f the society.				_
	f the society.				_
	f the society.				    [4]
	f the society.				
	f the society.				
	f the society.				
Describe how ene members of	f the society.				

A g	olf club maintains details about its members in a database.	Examiner Only  Marks Remark
	ch year, members are requested to update their details by completin mbership renewal form.	g a
Det	ails from these forms are used to update the database.	
(a)	By referring to the membership renewal form, explain what is meant by	
	A direct data source	_
		_ [2]
	An indirect data source	_
		_
(b)	Data verification and data validation are used when the database i updated.  (i) Explain the purpose of data verification.	S
		[2]
	(ii) Explain the purpose of data validation.	
		_
		[2]

Sui	mbership number rname stcode	23159 Hanna EL8 3YZ	
	of the following, suggest ar check would be the most s	nd justify a field for which th	е
Type che	ck		-
Format ch	heck		-
			-
Check dig	git		-
		[	6]
	e factors which may affect and a database.	the quality of information	
oroduced fron	=		
oroduced fron	n a database.		-
oroduced fron	n a database.		-
produced from  1  2	n a database.		-

a)	Describe <b>two</b> ways in which the organisation could obtain the software.	
	1	
		_
		_
		_
		_
	2	_
		_
		6]
b)	A team of IT professionals is involved in developing the new software  (i) Describe the main responsibilities of	6]
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Explain what happens during each of the following stages:	Examin Marks	ner Only Remark
Design	Marks	Keman
Implementation		
Testing		
[9]		

(ii)

	umentation is produced for the new system.	N	Marks R
(i)	Describe <b>two</b> reasons why technical documentation is produ	ced.	
	1		
	2		
		[4]	
/ii\	Identify <b>three</b> of the main contents of user documentation.		
(")			
	1		
	2		
	3		
		[0]	
		[3]	

A family wishes to connect a number of computers to the Internet usin wireless network.	Examiner Only Marks Remar
(a) Name and state the purpose of <b>three</b> additional resources that wi required <b>in this case</b> .	II be
Resource	_
Purpose	
	_
Resource	
Purpose	_
Resource	
Purpose	
	_ [6]

(b)	Explain what is meant by		Examin Marks	er Only Remark
	An IP address	-		
		-		
		-		
		-		
		-		
	A firewell	-		
	A firewall			
		-		
		-		
		_		
	SMS	_		
		-		
		-		
		-		
		_		
	[12	2]		

scribe the main features of I	Bluetooth tec	hnology.		Examiner Marks R
			[4]	

(c)

(i)	Describe the main features of		
(')	Paypal		
	таурат		
	https		
		F 41	
		[4]	
		[4]	
(ii)	Describe the main features of	[4]	
(ii)			
(ii)	Describe the main features of		
(ii)	Describe the main features of		
(ii)	Describe the main features of		
(ii)	Describe the main features of		
(ii)	Describe the main features of  A worm		
(ii)	Describe the main features of		
(ii)	Describe the main features of  A worm		
(ii)	Describe the main features of  A worm		
(ii)	Describe the main features of  A worm		

Explain how IC	vi is useu III i	a iypicai vii l	uai reality aβ	JIICALIUII.		
					[/]	
					141	
Describe <b>two</b> l			reality syster		[4]	
Describe <b>two</b> l : <b>his case</b> .	penefits of us	ing a virtual	reality syster	m <b>in</b>	[+]	
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Describe <b>two</b> t <b>his case</b> .	penefits of us	ing a virtual	reality syster	n <b>in</b>		
Describe <b>two</b> t <b>his case</b> .	penefits of us	ing a virtual	reality syster	n <b>in</b>		

(b)

Describe the main features of	Exam Marks	niner Only
The Computer Misuse Act	Warks	Remark
	-	
	-	
	-	
	-	
	-	
The Copyright, Designs and Patent Act		
	-	
	-	
	-	
	-	
[6	5]	
	Q	SMC

## THIS IS THE END OF THE QUESTION PAPER

(c)

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