

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2015

C	Centr	e Nu	mber
Can	didat	e Nu	mber

Information and Communication Technology

Assessment Unit AS 1

assessing

Module 1: Components of ICT



[AP111] TUESDAY 23 JUNE, MORNING *AP111*

TIME

2 hours.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

You must answer the questions in the spaces provided.

Do not write outside the boxed area on each page or on blank pages.

Complete in blue or black ink only. Do not write with a gel pen.

Answer all seven questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 120 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.



ı	The	ISBN 0-123456-78-9	
	(a)	Explain how data is read by a barcode reader.	
	(b)	By referring to this diagram, explain what is meant by Data	[3

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[4]



The bar code includes a modulus 11 check digit. Without performing any calculations, explain how a check digit can detect errors
without performing any calculations, explain now a check digit can detect errors
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. <i>A</i>	A la	ptop computer has a keyboard and a touch sensitive pad.
((a)	Identify and justify one use for which the touch sensitive pad would be more suitable than the keyboard.
		Use
		Justification
		[2]
((b)	The computer has a touch screen.
		Describe the main features of touch screen technology.
		[5]
((c)	Identify and justify a storage device which would be suitable for backing up data on a laptop computer.
		Device
		Justification
		[2]

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3			ess decides to introduce a new payroll system.	
	(a)	(i)	Describe two advantages of custom-built software compared to off-the-software.	helf
			1	
			2	
				[4]
		(ii)	Describe two disadvantages of custom-built software over off-the-shelf software.	
			1	
			2	
				_ [4]

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(b)	Explain why an off-the-shelf package might be the better choice in the case of
	payroll software.
(c)	The software has been tested.
	Describe each of the following types of testing.
	Application testing
	Acceptance testing

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(ω)	User documentation is provided for the payroll package. Describe three of the contents of user documentation.	
	Describe tinee of the contents of user documentation.	
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	3	
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(a)	Describe three ways in which this computer could use RAM.
	1
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(b)	State and justify one way in which ROM is used.
	Use
	Justification
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Whe	en keying in stock details, an employee enters a quantity as 915 instead of 19	5 .
(c)	Name and describe the type of error which has occurred.	
	Error	
	Description	
		[2]
	Name and describe two ways in which this error might be detected by data verification.	
	1. Name	
	Description	
	2. Name	
	Description	
		[6]
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(e)	Describe one way in which this error might be detected by data validation.	
		_ [2]
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(a)	Explain how data travels from one computer to another on each of the followin networks.
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(c)	Explain how each of the following is used in network communication.	
	An IP address	-
		-
		-
		-
		-
		-
	A gateway	-
		-
		-
		-
		-
		-
	Proxy server	-
		-
		-
		-
	[9]	-
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(a)	Describe the main features of OMP
(a)	Describe the main features of OMR.
(b)	Describe two reasons why OMR is a suitable method of data entry in this ca
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(b)	Describe two reasons why OMR is a suitable method of data entry in this ca
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(c)	The database of test results must be kept secure.	
(0)		
	Name and describe two methods which can be used to keep data secure.	
	Name	
	Description	
	Name	
	Description	
		[8]
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(a)	HTML is used to create the web site.	
	Describe the main features of HTML.	
	al time processing is used for sales.	
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	al time processing is used for sales.	
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(6)	Describe the main features of batch processing.	
Cus	stomers make secure payments using PayPal.	
(d)	Describe the main features of PayPal.	
(d)	Describe the main features of PayPal.	
(d)	Describe the main features of PayPal.	
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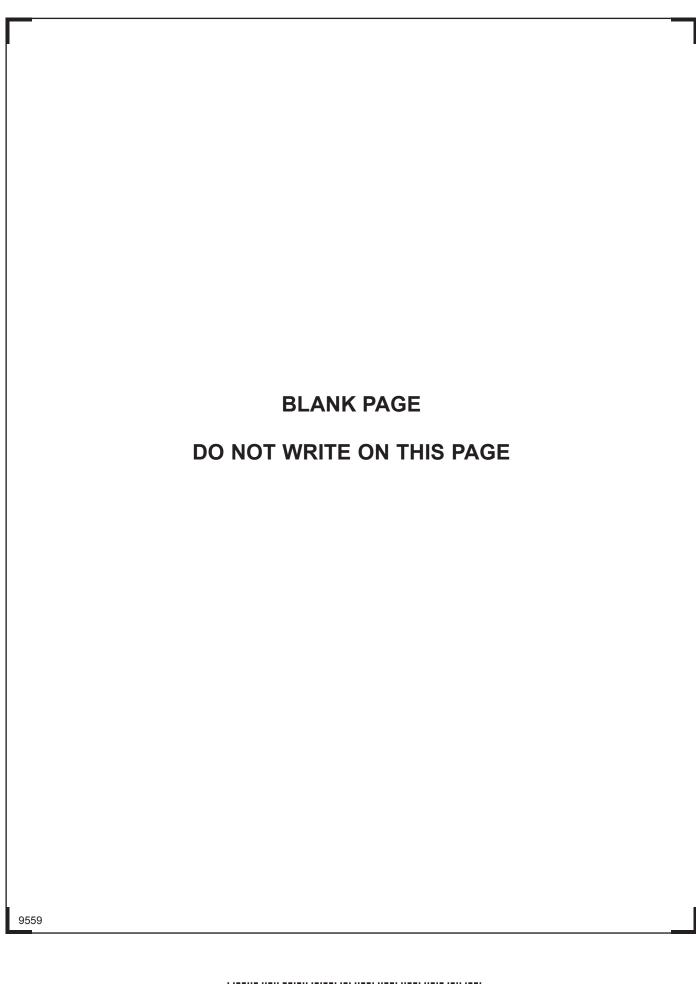
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