

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2015

(	Centr	e Nu	mber
Can	didat	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

#### 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.

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.



		-
1	The	e diagram below represents a bar code found on a book.
		ISBN 0-123456-78-9
	(a)	Explain how data is read by a barcode reader.
		[3]
	(b)	By referring to this diagram, explain what is meant by:
		Data
		Information

yg Learning
Rewardin

Remarks

Page Learning

Remarks

Rewardin

Rewarding

James Rewarding

Rewarding

Rewarding

Rewarding

Rewarding

Rewarding

James Re

Rewardin

Rewarding

20

Rewarding

Rewarding

Page Learning

Rewarding

Rewarding

Rewarding

Rewarding

Rewarding

Rewarding

Rewarding

Rewardin

Rewarding

Rewarding

Rewarding

ng Learning
Rewarding
ag Learning

Learning

\_ [4]



(c)	The bar code includes a modulus 11 check digit.
	Without performing any calculations, explain how a check digit can detect errors.
	[6]
	[Turn over
9559.03 <b>ML</b>	Liuiii ovei

Rowarding

Remarking L.

Learning L. Learni

Rewarding L

Rewarding L

Carlotte

Rewarding L

Learning

A Learning

Rewarding L



2	A la	ptop computer has a keyboard and a touch sensitive pad.
	(a)	Identify and justify one use where 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 that would be suitable for backing up data on a laptop computer.
		Device
		Justification
		[2]
9559.03	ML	

Paramana
Remarden

Remarding

Day

19 Learning

Remarding

19 Learning

19 Learning

Rewarding

Pag Learning

Rewarding

Remarks,
Sp. Learning

Rewarding

Pag Learning

Rewarding

newarding

Rewarding

Rewarding

G:

` ,	(i)	Describe <b>two advantages</b> of custom-built software compared to off-the-shelf software.	
		1	
		2	
			[4]
	(ii)	Describe <b>two disadvantages</b> of custom-built software over off-the-shelf	ניי.
	(/	software.	
		1	
		1	
		1	
		1.       2.	
			[4]

Rewarding L

Lauring
Rewarding L

Lauring
L Lauring
L Lauring
L Lauring
L Lauring
L Lauring
L Lauring
L Lauring
L Lauring

Rewarding L

Rewarding L

Rewarding L

Rewarding L

Rewarding L

Learning

Rewarding L

Rewarding L

Rewarding L

Learning

Learning

Rewarding L

A Learning

Rewarding L

Rowarding L

Rewarding L

Rewarding L.

A Learning

Rewarding



(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

Paramana
Remarden

Revearded,
Page Learning

Rewarding

Pag Learning

Rewarding

Remarding

Remarding

Remarding

12 Learning

13 Learning

14 Learning

15 Learning

Rewardin

Rewardin

Rewardin

Rewardin

Rewarding

Pag Learning

Rewarding

newarding

Rewarding

Rewarding

G:



		_
(d)	User documentation is provided for the payroll package.	
	Describe <b>three</b> of the contents of user documentation.	
	1	
	2	
	3	
	[6]	
	[6]	
	[Turn ove	۲:

Œ

Rewarding L

Learning

Rewarding L

Rewarding L

Rewarding L

Learning

Learning

Rewarding L

Learning

A Learning

A Learning

A Learning

A Learning

A Learning

A Learning

Rewarding L

Rowarding L



(a)	Describe <b>three</b> ways that this computer could use RAM.
	1
	2
	3
(b)	Write down and justify one way that ROM is used.
	Use
	Justification

Sultaming
Reveator
Sultaming

Rewardin

Rewarding

James Rewarding

Rewarding

Rewarding

Rewarding

Rewarding

Rewarding

James Re

Rewardin

Rewarding

20

Rewarding

Reveator

To Junearing

ng Learning
Rewardin
200
ng Learning

Rewardin

Rewardin Day Learnin

Rewardin

Rewardin Day 1g Learning



When keying in stock details, an employee enters a quantity as 915 instead of 19	95.
(c) Name and describe the type of error that has occurred.	
Error	
Description	
	[2]
(d) Name and describe two ways that this error might be detected by data verification.	
1. Name	
Description	
2. Name	
Description	
	_ [6]
FT	n over

Œ

Rewarding L

Rewarding L

Carlotte

Rewarding L

Rewarding L

Rewarding L

Rewarding L

Rewarding L

A Learning L

Rewarding L

A Learning

Rewarding L

Rowarding L

Rewarding L



		[2

Day Learning
Reversiting
Sig Learning
Sig Learning
Sig Learning
Reversiting
Reversiting
Sig Learning

Rewardin

Rewarding

19 Learning

Rewarding

19 Learning

Rewardin

Rewarding Rewarding Rewarding

Revertedon
To Learning
To Lear

ng Learning
Rewarding

Co



(a)	Explain how data travels from one computer to another on each of the following networks.
	Bus
	Ring
	[6]
	[Turn ove

Remorting L

Rewarding L

Rewarding L

Committee Com

Rewarding L



(b)	Describe the main features of a bus/star composite network.	
		_
		_
		_
		_
		_
		_
	[4	.]
9559.03 ML		

Rewardin ng Learning Rewardin ng Learning Rewardin rewardin Dep ng Learnina Rewarding ng Learning Rewardin ag Lesming Rewardin DED ng Lesmina Rewardin DED in Learning Rewardin ng Learning Rewardin DED na Lesmina

Rewardin ng Learning Rewardin ng Learning Rewardin ng Learning Rewardin ag Learning Rewardin DED ng Lesmina Rewardin ag Learning Rewardin DE Ing Learning Rewardin newardir. Rewartin ng Learning Rewardin ng Learning

Rewarding

10 January 10 January

ng Learning
Rewarding

G:



(c)	Explain how each of the following is used in network communication.
	An IP address
	A gateway
	Proxy server
	[9
0.03 <b>ML</b>	[Turn o

Rewarding L

A Learning L

Rewarding L

Rewarding L

Committee Com

Rewarding L

Rewarding L.

A Learning

Rewarding



(0)	Describe the main features of OMP
(d)	Describe the main features of OMR.
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b>
(b)	
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b>
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b>
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b>
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b>
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b> 1
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b>
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b> 1
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b> 1
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b> 1
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b> 1
(b)	Describe <b>two</b> reasons why OMR is a suitable method of data entry <b>in this ca</b> 1

yg Learning
Rewardin

Remarks

Page Learning

Remarks

Rewardin

Rewarding

James Rewarding

Rewarding

Rewarding

Rewarding

Rewarding

Rewarding

James Re

Rewardin

Rewarding

19 Learning

Rewarding

Rewarding

Rewarding

ag Learning

Rewardin

Rewarding
Rewarding
Rewarding
Rewarding
Rewarding
Rewarding
Rewarding
Rewarding

ng Learning
Rewardin
200
ng Learning

Rewardin

Rewardin

Rewardin Day 1g Learning

(c)	The database of test results must be kept secure.
	Name and describe <b>two</b> methods that can be used to keep data secure.
	Name
	Description
	Name
	Name
	Description
	[8]
	[Turn over
9559.03 <b>ML</b>	Liain over

Rewarding L

Rewarding L

Company

Rewarding L

Learning L. Learni

Rewarding L

Rewarding L

Company

Learning

Rewarding L

Learning

A Learning

Rewarding L

Rowarding L

Rewarding L

Rewarding



(a)	HTML is used to create the web site.	
	Describe the main features of HTML.	
Do		
	al time processing is used for sales.	
	al time processing is used for sales.	
	al time processing is used for sales.	
	al time processing is used for sales.	
	al time processing is used for sales.	
	al time processing is used for sales.	
	al time processing is used for sales.	
	al time processing is used for sales.	
	al time processing is used for sales.	
	al time processing is used for sales.	

Sultaming
Reveator
Sultaming

Rewardin

Rewarding

James Rewarding

Rewarding

Rewarding

Rewarding

Rewarding

Rewarding

James Re

Rewardin

Rowards

Rewarding

19 Learning

Rewarding

Rewarding 19 Learning Rewarding

newarding ng Learning

Rewarding

ag Learning
Rewarding
ag Learning

Co



(c)	Describe the	main fea	tures of ba	atch proces	ssing.	
						[4
Cu	stomers make	secure p	ayments ı	using PayP	al.	
(d)	Describe the	main fea	tures of P	ayPal.		
(d)	Describe the	main fea	tures of P	ayPal.		
(d)	Describe the	main fea	tures of P	ayPal.		
(d)	Describe the	main fea	tures of P	ayPal.		
(d)	Describe the	main fea	tures of P	ayPal.		
(d)	Describe the	main fea	tures of P	ayPal.		
(d)	Describe the	main fea	tures of P	ayPal.		
(d)	Describe the	main fea	tures of P	ayPal.		
(d)	Describe the	main fea	tures of P	ayPal.		
(d)	Describe the	main fea	tures of P	ayPal.		[4
(d)	Describe the	main fea	tures of P	ayPal.		[4
(d)	Describe the	main fea	tures of P	ayPal.		[4
(d)	Describe the	main fea	tures of P	ayPal.		[4
(d)	Describe the	main fea	tures of P	ayPal.		[4

Rewarding L

Learning L. Learni

Rewarding L

Rewarding L

Rowarding L.

Learning

A Learning

Rewarding L

Rewarding L.



(e)	Name and describe one other method of making secure on-line transactions.
	Name
	Description
	[4]

ag Learning G. ) Learning G: **3** Rewardin **PD** G. )g Learning Œ. a Learning Rewardin **2** 0 DED IN LARMING GC: <del>)</del> G. DED na Lesmina

Rewarding
Pag Learning
Rewarding
Rewarding
Rewarding
Rewarding
Rewarding
Rewarding
Rewarding
Rewarding

Towarding

Rewardin

Rewardin

Rewardin

Rewardin

Rewarding

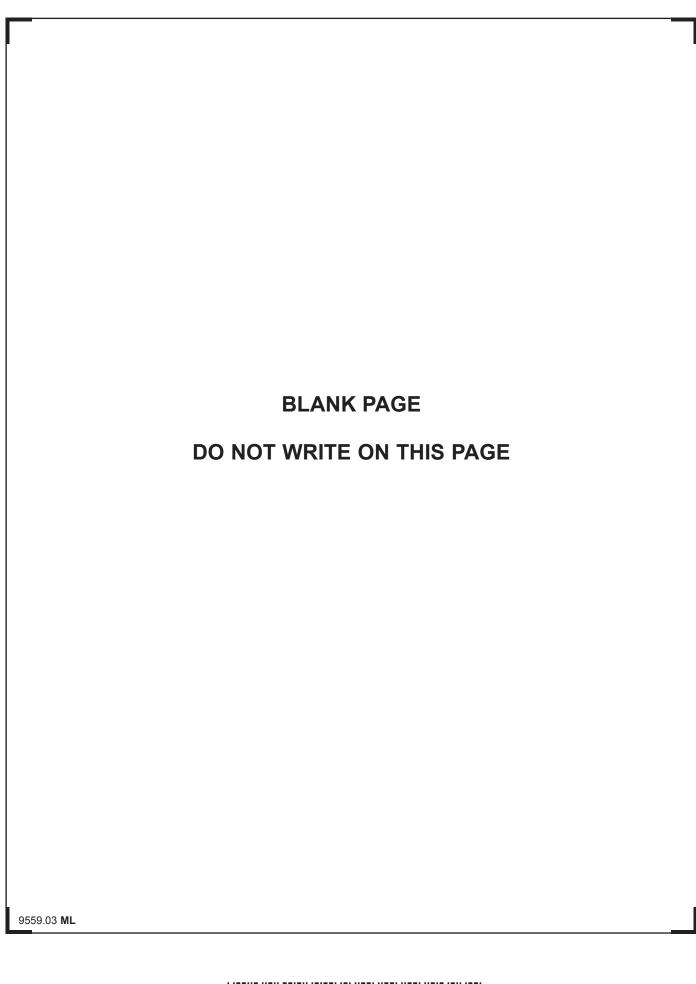
12 Learning

ng Learning
Rewardin
Delivery Learning

G:

## THIS IS THE END OF THE QUESTION PAPER







### DO NOT WRITE ON THIS PAGE

For Examiner's use only				
Question Number	Marks			
1				
2				
3				
4				
5				
6				
7				
QWC				

Rewarding
Rewarding
Rewarding
Rewarding
Rewarding

ng Learning

<del>)</del>

2

Rewarding

Page Learning

Rewarding

<del>)</del>

ng Learning
Rewarding

Rowarding

Rowarding

Rowarding

Rowarding

Rowarding

Rowarding

<del>)</del>

<del>)</del>

6

DE Ig Learnier

Revestion

DE Ng Learning

Rewarding 19 Learning

Rewardin

G:

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.

200733

