

	Cent	tre Nui	nber
	Candio	date Ni	ımber

General Certificate of Secondary Education 2011

## **Information and Communication Technology**

**Short Course** 

Paper 1 Higher Tier



[G5302]

**MONDAY 13 JUNE, AFTERNOON** 

1 hour 30 minutes.

#### 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 or with a gel pen.** Answer **all fifteen** questions.

### INFORMATION FOR CANDIDATES

The total mark for this paper is 140, including a maximum of 7 marks for the 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.

use	only
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
QWC	
Total	

Marks

For Examiner's

7016 Examiner Number



For	que	stion	1 insert the appropriate letter in the space provided.  Examiner Only  Marks Remark
1	(a)	A v	irus is:
		A	Software designed to protect the computer
		В	Software designed to damage the computer
		C	Hardware designed to damage the computer
		D	Hardware designed to protect the computer
			Answer [1]
	(b)	The	e law designed to protect computers from unauthorised access is:
		A	The Computer Management Act
		В	The Computer Misuse Act
		C	The Data Misuse Act
		D	The Data Management Act
			Answer [1]
	(c)	The	e law designed to protect personal data and information is:
		A	The Data Protection Act
		В	The Data Security Act
		C	The Information Protection Act
		D	The Information Security Act
			Answer [1]
7016			



(d	I) W	Thich statement is FALSE about flash memory?	iner Only Remark
	A	It is used in memory sticks	
	В	It cannot be erased	
	C	It is used in mobile phones	
	D	It has no moving parts	
		Answer [1]	
(e	e) Tł	he clipboard on a computer:	
	A	Stores data when the computer is switched off	
	В	Stores data for the operating system	
	C	Stores data when it is being copied	
	D	Stores data when it is being printed	
		Answer [1]	
(f	) W	/eb pages:	
	A	Are written using HTML and may contain hyperlinks	
	В	Are written using HTTP and may contain hyperlinks	
	C	Can only be viewed online whilst connected to the Internet	
	D	Cannot be sent as attachments	
		Answer [1]	
7016		[Tu	rn over



(g)	E-c	commerce is:  Examiner Only  Marks Remark
	A	Using ICT to manage sales and orders
	В	Communicating with customers via the Internet
	C	The buying and selling of goods and services via the Internet
	D	Using networks to link stores electronically
		Answer [1]
(h)	Tex	xt-wrapping is:
	A	When text is placed behind images on a printed document
	В	When text scrolls along the top of a web page when it is loaded
	C	When animated text enters a slide on a presentation
	D	When text flows automatically around a graphic
		Answer [1]
(i)	Re	fining the search in a search engine will:
	A	Increase the number of web pages returned in a search
	В	Reduce the number of web pages returned in a search
	C	Lead to web pages automatically being loaded onto the user's screen
	D	Provide increased security for the user when they are using the Internet
		Answer [1]



(j) TI	FT is a type of:		xaminer C	Only emark
A	Keyboard			
В	Printer			
C	Monitor			
D	Storage			
	Answer	_[1]		
		То	tal Quest	tion 1
7016		[	Turn (	over



Examiner Only

Marks Remark

2 Mrs Maxwell is taking 15 pupils on a trip to London. She has prepared the following spreadsheet showing the costs.

	A	В	С	D	E	F	G
1			Londo	on Trip Co	osts		
2	ITEM	Quantity	Cost	Total Cost	% Discount	Discount £	Total Payable
3	Airporter Bus Ticket	15	£ 20.00	£ 300.00	10%	£ 30.00	£ 270.00
4	Flight Ticket	15	£ 45.00	£ 675.00	5%	£ 33.75	£ 641.25
5	Stansted Express Ticket	15	£ 20.00	£ 300.00	10%	£ 30.00	£ 270.00
6	Wizard of Oz Ticket	10	£ 46.00	£ 460.00	15%	£ 69.00	£ 391.00
7	National Museum Ticket	5	£ 5.00	£ 25.00	5%	£ 1.25	£ 23.75
8	Globe Theatre Ticket	12	£ 18.00	£ 216.00	10%	£ 21.60	£ 194.40
9	Hotel Cost	15	£150.00	£2,250.00	10%	£225.00	£2,025.00
10			£304.00	£4,226.00		£410.60	£3,815.40

(a)	Apart from	the use of	bold, how	have the	cells in ro	w 1 been t	formatted?
							[1]
(b)	Below is a	section of	the spread	dsheet. En	ter the <b>T</b> H	REE form	nulae you

would expect to find in the spaces provided.

 $\mathbf{G}$ A B  $\mathbf{C}$ D  $\mathbf{E}$ F **London Trip Costs** 1 % **Total Discount Total** Quantity 2 **ITEM** Cost Payable £ Cost Discount

3	Airporter Bus Ticket	15	£20.00	[1]	10%	[1]	[1]
						,	



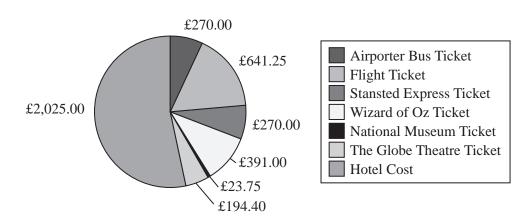
(c) Mrs Maxwell decides to include validation on the % Discount column. In the table below tick (✓) the validation rule which will allow all values in the range 0 to 100.

Validation Rule	Tick
>0 and <100	
>=0 and <=100	
<0 and >100	

[1]

**Examiner Only** 

(d) The following chart has been produced from the spreadsheet showing a summary of the costs for the London trip.



(i) Circle the **legend** on the chart.

[1]

(ii) What is the purpose of a legend on any chart?

[1]

(iii) List the **cell references** of the two cell ranges used to produce the chart.

Cell range 1

Cell range 2 \_\_\_\_\_\_ [2]

7016

Turn over



(i	y) How have data labels improved the chart?	Examin Marks	er Only Remarl
	[1]		
(v	List <b>ONE</b> piece of information that Mrs Maxwell could get from the chart above.		
	[1]		
		Total Qu	estion
		10141 Q1	10311011



John is a Year 8 student. He is learning about email in the school. Below is 3 Examiner Only Marks Remark part of an email. ☑ Send 🖫 🗿 🔯 🦃 🖟 🕄 🖟 🖺 Options... ② Help <u>C</u>c... Всс... Subject: Attachments: ▼ A Times New Roman ▼ 12 ▼ A B I U 를 를 를 듣 賃 賃 申 M 114 (a) Explain to John the difference between Cc and Bcc. Turn over 7016



(b) John wants to make use of attachments. Des by referring to the <b>Browse</b> and <b>Attach</b> button	
Attachments Web Page Dialog	X
	Help
Choose a file to attach:	
Add the file to the list	Browse
	Attach
Current file attachments	
	Remove
	Close
Browse	
Attach	
	[2]
7016	



Describe <b>TWO different</b> ways in which John can send the ten file		Marks	Rem
1			
	_ [1]		
2			
	_ L*J		
	·		
		Total Qu	iestic



(a) The photog	graph is a <b>bitmap</b> . List <b>TWO</b> features of a bitmap file.
Feature 1:	
Feature 2:	
	[2]
<b>(b)</b> Below is a	menu from the software package Eamon will use.
	Auto Correct Ctrl+Q  Brightness and Contrast
	<u> </u>
	Crop
	Red Eye Removal
	Resize
	Compress Pictures



In the table below, tick  $(\checkmark)$  the **TWO** statements that are **TRUE** about the **Resize** and **Compress Pictures** options.

Statement	Tick (✓)
<b>Resize</b> allows the user to change the height and width of the picture.	
<b>Compress Pictures</b> will increase the storage space required for the pictures.	
<b>Compress Pictures</b> will decrease the storage space required for the pictures.	
Resize allows the user to delete part of the picture.	

1	7	) [
- 1		

Examiner Only

Marks Remark

(c)	The software package allows pictures to be saved in <b>jpeg</b> format. Give
	<b>ONE</b> reason why Eamon should save the photograph in this format if
	he is going to use it on a website.

_	ĮΙ	

Total Question 4

[Turn over



Гask	Software
	Select ONE only
Perform financial calculations on customer data.	<ul> <li>□ Database</li> <li>□ Spreadsheet</li> <li>□ Desktop Publishing</li> <li>□ Email</li> </ul>
	Select ONE only
Store customer records without repeating data.	<ul> <li>□ Database</li> <li>□ Spreadsheet</li> <li>□ Desktop Publishing</li> <li>□ Email</li> </ul>
	Select ONE only
Create a flyer to advertise the company.	<ul> <li>□ Database</li> <li>□ Spreadsheet</li> <li>□ Desktop Publishing</li> <li>□ Email</li> </ul>
	[3]



(2)	Explain the term multipredie		
(1)	Explain the term <b>multimedia</b> .		
		[2]	
(ii)	List <b>TWO</b> features of a multimedia package that the accountant could use to make the presentation run automatically.	t	
	1		
	2	[2]	
The	e accountant has used a wizard to help prepare the presentation.		
111	e decountaint has used a wizard to help prepare the presentation.		
(iii	) What is a wizard?		
(iii	What is a wizard?	_	
(iii			
(iii)			



6	Catriona has bought a new computer. Some of the details about the
	computer are listed below.

Examiner Only

Marks Remark

Processor	Intel® Pentium® Processor E5300

- 2.6 GHz- 800 MHz

Operating System Genuine Windows® 7 Home Premium 64-bit

RAM 2 GB

Screen resolution  $1366 \times 768$ 

Screen size 18.5"

Hard drive 320 GB 7200 rpm

Optical disk drive DVD writer

Memory card reader Yes

USB 6 USB 2.0 ports (2 in front)

Modem/Ethernet Ethernet RJ-45 port

Wi-Fi Yes Bluetooth No

(a) The Operating System Genuine Windows® 7 Home Premium is a GUI.

(i)	Evnand	the	acronym	CIII
(1)	Expand	uic	acronym	GUL

[1]



Feature 1	Marks R
Explanation:	
Feature 2	
Explanation:	
[4]	
The screen resolution of the computer is $1366 \times 768$ . Explain the term <b>resolution</b> in relation to a computer screen.	
[2]	
The computer has 6 USB ports. What is the purpose of a USB port on any computer?	
[1]	
What is the advantage of having a <b>memory card reader</b> on the computer?	
[1]	



computer.			
1			
2			
3	_[3]		
		Total Qu	



Input and output devices are important parts of any computer system. 7 Examiner Only Marks Remark (a) Name the input devices shown below and explain ONE way in which they can be used to input data into a computer system. **Device Name Device** Use **(i)** © http://www.teach-ict.com [1] [1] (ii) [1] [1] ©iStockphoto/Thinkstock (iii) [1] [1] @Hemera/ThinkstockTurn over 7016



<b>IMPACT</b>	<b>NON IMPACT</b>	HIGH	<b>POOR</b>				
TONER	INK CARTRIDGES	DOT	MATRIX				
INK JET							
A laser printer is	A laser printer is a type of printer. It produces						
	quality printouts and uses		_ to print				
onto paper. A	printer can p	roduce carbor	copies				
because the prin	t head makes contact with t	the paper.	[4]				



8		c's English teacher has set up a video conference with an international t and the class.	Examino Marks	er Only Remark
	(a)	Apart from a computer, list <b>TWO</b> pieces of hardware that his teacher will require for the video conference.		
		1		
		2[2]		
	(b)	State <b>TWO</b> advantages of using video conferencing in this situation.		
		1		
		2		
		[2]		
	(c)	The school's network manager asks the teacher to run the video conference after school.		
		What impact could running the video conference during school time have on other users of the school network?		
		[1]		
			Total Qu	estion 8
7016			[Turi	1 over



(a)	Use the most appropriation about d	priate words	from the list	below to cor	nplete the	
		•			)	
	fields	form	record	file		
	report	structu	red u	pdated		
	A database is a	co	llection of ir	formation.		
	Each entry about a	person or iter	n in a databa	se is called a	ı	
	Data can be input in	nto a database	e using a		[3]	
					[-]	
Par	t of the database Ais	linn created i	s shown belo	W.	[0]	
	Prize Name	Surname	First Name	Year Group	Attending?	
	Prize Name	Surname Irwin	First Name	Year Group	Attending? ☑	
	Prize Name 1 ICT Prize 2 Maths Prize	Surname Irwin Baird	First Name	Year Group	Attending?	
	Prize Name	Surname Irwin	First Name Jane Jake	Year Group 8 8	Attending? ☑ ☑	
	Prize Name 1 ICT Prize 2 Maths Prize 3 English Prize	Surname Irwin Baird Coleman	First Name Jane Jake Brian	Year Group 8 8	Attending? ☑ ☑	
	Prize Name 1 ICT Prize 2 Maths Prize 3 English Prize 4 Science Prize	Surname Irwin Baird Coleman Groves	First Name Jane Jake Brian Simon	Year Group 8 8 8 8	Attending?  ✓  ✓	
	Prize Name 1 ICT Prize 2 Maths Prize 3 English Prize 4 Science Prize 5 Excellent Attendance	Surname Irwin Baird Coleman Groves Smith	First Name Jane Jake Brian Simon Leisa	Year Group 8 8 8 8 8	Attending?  ✓  ✓  ✓	
	Prize Name 1 ICT Prize 2 Maths Prize 3 English Prize 4 Science Prize 5 Excellent Attendance 6 Music Prize 7 Athletics Prize 8 Best Grades	Surname Irwin Baird Coleman Groves Smith Brown Phillips Thomas	First Name Jane Jake Brian Simon Leisa Emily	Year Group	Attending?	
	Prize Name  1 ICT Prize  2 Maths Prize  3 English Prize  4 Science Prize  5 Excellent Attendance  6 Music Prize  7 Athletics Prize  8 Best Grades  9 Effort	Surname Irwin Baird Coleman Groves Smith Brown Phillips Thomas Stanley	First Name Jane Jake Brian Simon Leisa Emily Alexander Cathy Peter	Year Group 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Attending?	
	Prize Name  1 ICT Prize  2 Maths Prize  3 English Prize  4 Science Prize  5 Excellent Attendance  6 Music Prize  7 Athletics Prize  8 Best Grades  9 Effort  10 ICT Prize	Surname Irwin Baird Coleman Groves Smith Brown Phillips Thomas Stanley Hicks	First Name Jane Jake Brian Simon Leisa Emily Alexander Cathy Peter Myles	Year Group 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Attending?	
	Prize Name  1 ICT Prize  2 Maths Prize  3 English Prize  4 Science Prize  5 Excellent Attendance  6 Music Prize  7 Athletics Prize  8 Best Grades  9 Effort  10 ICT Prize  11 Maths Prize	Surname Irwin Baird Coleman Groves Smith Brown Phillips Thomas Stanley Hicks Dunlop	First Name Jane Jake Brian Simon Leisa Emily Alexander Cathy Peter Myles Molly	Year Group 8 8 8 8 8 8 8 8 9 9 9	Attending?	
	Prize Name  1 ICT Prize  2 Maths Prize  3 English Prize  4 Science Prize  5 Excellent Attendance  6 Music Prize  7 Athletics Prize  8 Best Grades  9 Effort  10 ICT Prize  11 Maths Prize  12 English Prize	Surname Irwin Baird Coleman Groves Smith Brown Phillips Thomas Stanley Hicks Dunlop Irwin	First Name Jane Jake Brian Simon Leisa Emily Alexander Cathy Peter Myles Molly Charlie	Year Group 8 8 8 8 8 8 8 8 9 9 9 9	Attending?	
	Prize Name  1 ICT Prize 2 Maths Prize 3 English Prize 4 Science Prize 5 Excellent Attendance 6 Music Prize 7 Athletics Prize 8 Best Grades 9 Effort 10 ICT Prize 11 Maths Prize 12 English Prize 13 Science Prize	Surname Irwin Baird Coleman Groves Smith Brown Phillips Thomas Stanley Hicks Dunlop Irwin Morris	First Name Jane Jake Brian Simon Leisa Emily Alexander Cathy Peter Myles Molly Charlie Joseph	Year Group 8 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9	Attending?	
	Prize Name  1 ICT Prize  2 Maths Prize  3 English Prize  4 Science Prize  5 Excellent Attendance  6 Music Prize  7 Athletics Prize  8 Best Grades  9 Effort  10 ICT Prize  11 Maths Prize  12 English Prize  13 Science Prize  14 Excellent Attendance	Surname Irwin Baird Coleman Groves Smith Brown Phillips Thomas Stanley Hicks Dunlop Irwin Morris Mains	First Name Jane Jake Brian Simon Leisa Emily Alexander Cathy Peter Myles Molly Charlie Joseph John	Year Group 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9	Attending?	
Par	Prize Name  1 ICT Prize  2 Maths Prize  3 English Prize  4 Science Prize  5 Excellent Attendance  6 Music Prize  7 Athletics Prize  8 Best Grades  9 Effort  10 ICT Prize  11 Maths Prize  12 English Prize  13 Science Prize  14 Excellent Attendance  15 Music Prize	Surname Irwin Baird Coleman Groves Smith Brown Phillips Thomas Stanley Hicks Dunlop Irwin Morris	First Name Jane Jake Brian Simon Leisa Emily Alexander Cathy Peter Myles Molly Charlie Joseph	Year Group 8 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9	Attending?	
	Prize Name  1 ICT Prize  2 Maths Prize  3 English Prize  4 Science Prize  5 Excellent Attendance  6 Music Prize  7 Athletics Prize  8 Best Grades  9 Effort  10 ICT Prize  11 Maths Prize  12 English Prize  13 Science Prize  14 Excellent Attendance	Surname Irwin Baird Coleman Groves Smith Brown Phillips Thomas Stanley Hicks Dunlop Irwin Morris Mains Knowles	First Name Jane Jake Brian Simon Leisa Emily Alexander Cathy Peter Myles Molly Charlie Joseph John Michael	Year Group 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9	Attending?  V  V  V  V  V  V  V  V	



Aislinn has used the following structure to set up her database.

Field	Data Type
Prize ID	Number
Prize Name	Text
Surname	Text
First Name	Text
Year Group	Number
Attending?	

(c)	Suggest a	suitable	data type	e for the	Field.	Attending?
-----	-----------	----------	-----------	-----------	--------	------------

[1]

Aislinn wants to search the database for all of the pupils in Year 8 who are attending Prize Day.

(d) Place a tick (✓) in the table below beside the criteria that will return the correct results.

Criteria	Tick (✓)
Year Group = 8 OR Attending = Yes	
Year Group <> 8 AND Attending = Yes	
Year Group = 8 AND Attending = Yes	
Year Group > = 8 OR Attending = Yes	

[1]

Turn over

**Examiner Only** 

Aislinn creates the following report for her teacher.

# Prize Day 2011

Year Group	Surname	First Name	Prize ID	Prize Name	Attending?
8					
	Baird	Jake	2	Maths Prize	$\mathbf{\Sigma}$
	Brown	Emily	6	Music Prize	$\mathbf{v}$
	Coleman	Brian	3	English Prize	
	Groves	Simon	4	Science Prize	$\mathbf{Z}$
	Irwin	Jane	1	ICT Prize	$ \mathbf{Z} $
	Phillips	Alexander	7	Athletics Prize	$\mathbf{\nabla}$
	Smith	Leisa	5	Excellent Attendance	$\mathbf{z}$
	Stanley	Peter	9	Effort	
	Thomas	Cathy	8	Best Grades	
9					
	Cowan	Eimer	18	Effort	
	Dunlop	Molly	11	MathsPrize	$\mathbf{\nabla}$
	Hicks	Myles	10	ICT Prize	
	Irwin	Charlie	12	English Prize	$ \mathbf{Z} $
	Knowles	Michael	15	Music Prize	$ \mathbf{Z} $
	Mains	John	14	Excellent Attendance	
	McDowell	Chris	17	Best Grades	$\mathbf{\Sigma}$
	Morris	Joseph	13	Science Prize	$\mathbf{Z}$
	Peters	Petra	16	Athletics Prize	

Examiner Only



<b>(e)</b>	In the table below, tick ( \( \stacksigma \)) <b>TWO</b> statements that are <b>TRUE</b> about the
	formatting of this report.

Formatting	Tick (✓)
The report is grouped according to Attending	
The report is grouped according to Year Group	
The report is sorted according to Prize Name	
The report is sorted according to Attending	
The report is sorted according to First Name	
The report is sorted according to Surname	

_		-
	′ )	

Examiner Only

Marks Remark

<b>(f)</b>	List TWO ways (apart from changing font or text colour) in which
	Aislinn could improve the appearance of the report on page 24.

4	1.	11	1
-			1
-			1
J	ı,	- 1	

<b>a</b>	[1	17
	- 11	
4.	11	ΙI

Some of the data Aislinn needs for the database has been entered into a text file. She can import this into her database as a **csv** file.

(g)	Expand	the	acronym	csv
(0)			2	

[1]
-----

Total Question 9

[Turn over



10			supermarket is trying to decide if they should install a new <b>OS</b> system.		Examin Marks	er Only Remark
	(a)	Exp	oand the acronym EFTPOS.			
				[1]		
	(b)	Naı	me <b>TWO</b> output devices used with an EFTPOS system.			
		1.		[1]		
		2.		[1]		
	(c)	(i)	List <b>TWO</b> advantages <b>to the customer</b> of installing an EFTPC system.	os		
			1			
			2	[1]		
		(ii)	List <b>TWO</b> disadvantages <b>to the supermarket</b> of installing an EFTPOS system.			
			1	[1]		
			2	[1]		
7016				l		



EFTPOS systems scan barcodes on products when purchases are made.

(d) In the table below, tick  $(\checkmark)$  TWO statements that are TRUE about barcodes on supermarket products.

EFTPOS at a typical supermarket	Tick (✓)
The product barcode is used to search a database for the price of the item	
The product barcode contains details about the sell-by date of the item being purchased	
Barcodes use check digits to validate that they have been entered correctly	
Barcodes contain a description of the product so it can be added to your itemised receipt	

[2]

Total Question 10 [Turn over

Examiner Only Marks Remark



11	Banks make widespread use of ICT today.	Examiner Only  Marks Remark
	Customers can manage their accounts online or using telephone banking.	
	(a) List <b>TWO</b> advantages <b>to banks</b> of allowing customers to use online and telephone banking accounts.	
	1[1]	
	2[1]	
	(b) Give ONE reason why some customers may not want to use online banking.	
	[1]	
	Customers can withdraw cash from their accounts using ATM (Automated Teller Machines).  (c) List TWO methods of security used at an ATM.	
	1[1]	
	2[1]	
	Banks can use a magnetic stripe or a micro chip to store details on customers' bank cards.	
	(d) List TWO differences between magnetic stripe cards and cards using micro chips.	
	1[1]	
	2[1]	
		Total Question 11

12 Sarah has bought a new PC but wants to know more about the different storage media she can use.

Examiner Only

Marks Remark

(a) State whether each of the media in the table below is **Magnetic** or **Optical** storage media. The first is completed for you.

Media	Magnetic or Optical?
©iStockphoto/Thinkstock	Magnetic
©iStockphoto/Thinkstock	
© Starled at /Thicket of	
©iStockphoto/Thinkstock	

[2]

Turn over



	hard disc main memory CD ROM		
Fastest	1	[1]	
	2	[1]	
↓ Slowes			
	has a 160 GB hard disc, 2 GB of RAM and 1 GB of cache		
memory.			
` ' ' '	splain to Sarah why <b>backup</b> is important and suggest <b>ONE</b> vice which she could use to back up her system.		
de	vice which she could use to buck up her system.		
_		[2]	
(II) P			
(m) R /	AM and cache memory are both <b>volatile</b> . What is meant by the	10	
, ,	em volatile?	ie	
, ,	· · · · · · · · · · · · · · · · · · ·		
, ,	· · · · · · · · · · · · · · · · · · ·	[1]	
(iii) Gi	The volatile?	[1]	
(iii) Gi	rm volatile?	[1]	
(iii) Gi	The volatile?	[1]	
(iii) Gi	The volatile?	[1]	
(iii) Gi a l	The volatile?	[1]	



	Pavid needs to record data on weather change over a period of le sets up a data logging experiment to record temperature a			Exam Marks	Remar
(a	A) Apart from a temperature sensor, name <b>ONE</b> other sensor need to use in this experiment.	sor he wou	ld		
			_ [1]		
	Pavid's data logging experiment uses an <b>interface</b> to conne to the computer.	ect the sens	ors		
(b	b) Why is an interface necessary?				
			_ [1]		
(c	e) Give <b>ONE</b> advantage of using a computer to log data inste	ad of a hun	nan.		
			[1]		
	Pavid's greenhouse uses a computerised control system wit elp maintain temperature and humidity levels.	h feedback			
he			a to		
he	elp maintain temperature and humidity levels.  I) In the table below, tick ( ) the correct explanation of he		a to		
he	elp maintain temperature and humidity levels.  I) In the table below, tick (✓) the correct explanation of hused in this example.	ow feedbac	a to		
he	elp maintain temperature and humidity levels.  In the table below, tick (✓) the correct explanation of hused in this example.  Feedback in greenhouse system  Sensors record changes in temperature and humidity and if necessary the sensors turn on the heating or	ow feedbac	a to		
he	elp maintain temperature and humidity levels.  In the table below, tick (✓) the correct explanation of hused in this example.  Feedback in greenhouse system  Sensors record changes in temperature and humidity and if necessary the sensors turn on the heating or the sprinklers  Sensors record changes in temperature and humidity and if necessary the user will turn on the heating or	ow feedbac	a to		
he	In the table below, tick (✓) the correct explanation of h used in this example.  Feedback in greenhouse system  Sensors record changes in temperature and humidity and if necessary the sensors turn on the heating or the sprinklers  Sensors record changes in temperature and humidity and if necessary the user will turn on the heating or the sprinklers  Sensors record changes in temperature and humidity and if necessary the user will turn on the heating or the sprinklers  Sensors record changes in temperature and humidity and if necessary the interface will turn on the	ow feedbac	a to		

(e)	Explain how control systems are used to manage traffic at busy junctions.		Examir Marks	Rema
		[2]		
(f)	List <b>TWO</b> ways data logging systems are different from control systems.			
	1	_ [1]		
	2	_ [1]		
		-	Total Qu	estion



14		ional newspaper uses a LAN (Local Area Network) with an Intranenternet connection.	Exam Marks	iner Only Remark
	(a) L	ist TWO advantages to the newspaper of using a LAN.		
	1	·		
		·		
		at the newspaper can also use the WWW (World Wide Web) to rch articles they are writing.		
	<b>(b)</b> E	explain the difference between the <b>Internet</b> and the <b>WWW</b> .		
	_			
	_			
	_		[2]	
	(c) (i	List TWO differences between a LAN and a WAN.		
		1		
		2	[2]	
	<b>(</b> i	(i) Apart from a computer, name <b>ONE</b> item of hardware needed fo Internet connection.	or	
			[1]	
	<b>(</b> i	iii) Name <b>ONE</b> piece of software needed for Internet connection.		
			[1]	
7016			[Tu	rn over



(d)	Describe <b>ONE</b> way the editor of the newspaper could make use of the <b>Intranet</b> .	Examir Marks	Remar
	[1]		
	newspaper also uses the LAN to store personal details about bloyees.		
(e)	Name <b>ONE</b> method of security they might employ to ensure data on the LAN is kept secure from internal users.		
	[1]		
		Total Qu	estion



15 Using the terms in the list below, choose **ONE** term that best matches the definition in the left-hand column (not all words in the list will be used).

**Modelling** Template

Cursor Zoom Scanner Pixel

Font size

**Export** Absolute Digital History

Mail-merge URL

Backup

Definition	Term
A web address which when typed into the address bar of a browser will take the user to a website	
A document that can be edited and reused over and over again	
The smallest element on a VDU that can be edited	
Allows an area of the screen to be seen more closely	
Data in a format known as binary, which consists of two digits 0 and 1	
An object which tracks the user's screen position	
A spreadsheet cell reference that does not change when copied	
A button on a web browser which shows the websites that have been visited	
Using a database and word processor to create personalised documents	
To convert a document into a format for use in another package	
	[10]

Total Question 15 Quality of Written Communication

**Examiner Only** 

Marks Remark



## PLEASE DO NOT WRITE ON THIS PAGE

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.

