Surname		
Surname		Other names
Edexcel IGCSE	Centre Number	Candidate Number
Information Communication		echnology
Paper 1: Written pa	per	
Paper 1: Written pa Sample Assessment Mater Time: 1 hour 30 minutes	-	Paper Reference 4ITO/01

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
 - there may be more space than you need.

Information

- The total mark for this paper is 100.
- The marks for **each** question are shown in brackets
 - use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.





SECTION A

Answer ALL questions.

For each question, choose an answer A, B, C or D and put a cross in the box \boxtimes . Mark only one answer for each question. If you change your mind about an answer, put a line through the box \boxtimes and then mark your new answer with a cross \boxtimes .

1	Which	one of these is an input device?
	⊠ A	A data projector
	⊠ B	A monitor
	⊠ C	A graphics tablet
	⊠ D	A speaker
		(Total for Question 1 = 1 mark)
2	Which	device would be used to produce a hard copy of an email?
	⊠ A	A sensor
	⊠ B	A printer
	⊠ C	A webcam
	\boxtimes D	A scanner
		(Total for Question 2 = 1 mark)
3	Comp	uter files can be stored in a:
	⊠ A	table
	⊠ B	record
	⊠ C	folder
	⊠ D	field.
		(Total for Question 3 = 1 mark)
4	The ty	pe of software used to produce and run a slide show is:
	⊠ A	desktop publishing
	⋈ B	presentation
	⊠ C	graphics
	⊠ D	framing.
		(Total for Question 4 = 1 mark)

5	Writing	g an email when not connected to the internet	is known as:
		working online	
	⊠ B	forwarding	
	⊠ C	working offline	
	■ D	copying.	
			(Total for Question 5 = 1 mark)
6	Which	one of these would hold the largest amount of	data?
	⊠ A	A terabyte	
	⊠ B	A megabyte	
	⊠ C	A maxibyte	
	⋈ D	A kilobyte	
			(Total for Question 6 = 1 mark)
7	Device	s connecting to a network must have a(n):	
	⊠ A	USB cable	
	⊠ B	IP address	
	⊠ C	sound card	
	■ D	backup device.	
			(Total for Question 7 = 1 mark)
8	Some	membership cards can be read electronically.	
	Where	on the card is the electronic data stored?	
	⊠ A	Magnetic stripe	
	⊠ B	Name printed on the card	
	⋈ C	Number printed on the card	
	⊠ D	Signature strip	
			(Total for Question 8 = 1 mark)

9	Which	one of these is not a method used to improve of	lata security?
	⊠ A	Backup	
	⊠ B	Spellchecking	
	⊠ C	Encryption	
	⊠ D	Password protection	
			(Total for Question 9 = 1 mark)
10	Traffic	light systems are used to help traffic flow freely.	
	What t	ype of software is used in a traffic light system?	
	⊠ A	Management software	
	⊠ B	System software	
	⊠ C	Control software	
	⊠ D	Communication software	
			(Total for Question 10 = 1 mark)
11	Operat known	ing systems that allow users to run more than o as:	ne program at a time are
	⊠ A	multi-tasking	
	⊠ B	multi-user	
	⊠ C	networking	
	⊠ D	utility programs.	
			(Total for Question 11 = 1 mark)
12	Finger	print scanners are used to identify individuals.	
	The te	rm used to describe this type of scanner is:	
	⊠ A	ergonomic	
	⊠ B	optical	
	⊠ C	digital	
	⊠ D	biometric.	
			(Total for Question 12 = 1 mark)

13 Many p	people buy goods over the internet.				
Which	one of these statements is accurate?				
⊠ A	All goods bought over the internet are cheaper than those sold in shops.				
⋈ B	$oxed{oxed}$ The sale of goods over the internet is well regulated.				
	It is possible to compare prices before buying goods over the internet.				
⊠ D	Images of goods displayed on the internet are always accurate.				
	(Total for Question 13 = 1 mark)				
14 Many p	people have concerns about the security of online banking services.				
Which	one of these is the most appropriate advice to follow when using these services?				
⊠ A	Install a firewall and choose a simple password.				
⊠ B	Install a virus checker and change your password regularly.				
⊠ C	Install a virus checker and choose a simple password.				
⊠ D	Install a firewall and change your password regularly.				
	(Total for Question 14 = 1 mark)				
15 A com	puter is advertised with a '3GHz Pentium 4 processor'.				
What i	s the processor speed in pulses per second?				
⊠ A	4 000 000 000 000				
⊠ B	4 000 000 000				
⊠ C	3 000 000 000 000				
⊠ D	3 000 000 000				
	(Total for Question 15 = 1 mark)				
16 Music	can be downloaded from the internet.				
Which	one of these statements is true?				
⋈ A	It is always necessary to have the owner's permission before downloading music.				
⊠ B	Downloaded music can always be legally copied and passed to other people.				
⊠ C	Individual tracks, rather than whole CDs, can always be legally downloaded.				
⊠ D	All music files take the same time to download.				
	(Total for Question 16 = 1 mark)				
	TOTAL FOR SECTION A = 16 MARKS				



SECTION B

Answer ALL questions.

Some questions must be answered with a cross in a box \boxtimes . If you change your mind about an answer, put a line through the box \boxtimes and then mark your new answer with a cross \boxtimes .

- 17 A large supermarket has a network of Electronic Point of Sale (EPOS) terminals.
 - (a) The table contains a list of components of an EPOS terminal.

For **each** component put a cross in the correct box to show whether it is used for input, output or both.

(4)

Component	Input only	Output only	Input and Output
Concept keyboard		\boxtimes	\boxtimes
Touch screen		\boxtimes	
Printer		×	×
Chip and pin reader		\boxtimes	×

- (b) Each item for sale in a supermarket has a bar code.
 - Identify the item of data that **must** be stored in the bar code.

(1)

(ii) Bar code scanning is an automated method of entering data.

Give **two** advantages of using bar code scanning rather than entering the data manually.

(2)

		data collected by the bar code scanner is used to update the database of k items.	
((i)	Identify where this database will be stored.	(1)
((ii)	Describe three ways in which the data collected can be used by the supermarket.	(3)
		(Total for Question 17 = 11 n	narks)

Output device George needs to complete the tasks given in the table. Complete the table by identifying the most appropriate type of applications software to use for each task. (4) Task Type of Applications Software Keeping records of tenants Writing letters to tenants Calculating rents for tenants Producing advertising flyers Identify one other type of software George will need in addition to application software.
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Producing advertising flyers Identify one other type of software George will need in addition to application software.
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software.

(d) George often works on his computer all day.	
	Identify two possible health issues that this may cause.	
	For each issue give one action that George should take to reduce the risk.	
	Do not repeat answers.	(4)
	Health issue 1	(4)
	Action	
	Health issue 2	
	Action	
(e)) George can personalise the computer's settings to meet his needs. One setting he could change is the speed of the mouse movement. Identify three other computer settings he could change.	
1		(3)
2		
3		



(f) Geo	rge's computer has 2Gb RAM (Random Acces	s Memory).	
(i)	State what Gb stands for.		(1)
(ii)	Describe the characteristics of RAM.		(2)
		(Total for Question 18 = 17 mar	ks)

19	'Charles Books' is a cor	npany that sells	s books either b	v mail order (using	post) or online.
-	Charles books is a col	ripariy tilat schi	DOOKS CITICI D	y man oraci (asing	post, or on

(a)	In the table put a cross in the boxes next to the four items that can be used to
	connect to the internet.

(4)

Printer Scanner Internet service provider Broadband connection Chip and pin reader Modem Web browser Word processor		
Internet service provider Broadband connection Chip and pin reader Modem Web browser	Printer	×
Broadband connection Chip and pin reader Modem Web browser	Scanner	\boxtimes
Chip and pin reader Modem Web browser	Internet service provider	×
Modem Web browser	Broadband connection	\boxtimes
Web browser	Chip and pin reader	\boxtimes
	Modem	\boxtimes
Word processor	Web browser	×
	Word processor	×

(b) When an online order is received an automatic confirmation message is sent to the customer.

Name the method of communication used to send the confirmation.

(1)

	(c) (i)	One advantage to the customers of ordering books online, rather than using the mail order system, is that they receive an automatic confirmation message.	
		Identify three other advantages to the customers of ordering online.	(3)
1.			
2 .			
3 .			
	(ii)	Identify three advantages to the company of being able to receive orders online rather than via the mail order system.	(3)
1.			
2 .			
3 .			
	(d) Jim	Wales wants to find the website address of 'Charles Books'.	
	Ехр	plain how Jim could use the internet to help him find the website address.	(3)

e) Some customers are concerned about using credit cards to pay online.	
Identify two concerns the customers may have.	
For each concern give one action that can be taken to reduce the conce	rn.
Do not repeat answers.	(5)
	(4)
Concern 1	
Action	
ACTION	
Concern 2	
Action	
(Total for Question 19	

20	'JOY Build' is a small manufacturing company.	
	It has a Local Area Network (LAN).	
	(a) Identify one hardware component that a workstation must have to allow access to the LAN.	
		(1)
	(b) One benefit of using a LAN is that steps can be taken to ensure data security.	
	(i) Identify three other benefits.	(3)
1		
2		
3		
	(ii) Identify three ways in which data on the network can be made more secure.	(3)
1		
2		
3		

(c)	'OĽ	Y Build' has set up an intranet as part of the LAN.	
	(i)	Describe the features of an intranet.	(2)
	(ii)	Identify two facilities that 'JOY Build' could provide as part of the intranet.	(2)
		(Total for Question 20 = 11 mag	arks)

21	Blackw	ood Centre has 50 networked computers with access to the internet.	
	The co	mputers are used by local people for a variety of different reasons.	
		nal uses a computer at the centre to send emails with photographs to his ther who lives in another country.	
	(i)	Jemal has some printed photographs.	
		Describe how he could get them into a format that can be attached to an email	. (2)
	(ii)	Jemal has been advised to keep backup copies of his photograph files.	
		Give two reasons for the advice.	(2)
1			(=)
1			
~			
2			
	(iii)	Name one appropriate storage device for keeping backup copies of the photographs.	
		photographs.	(1)
	(iv)	Give one physical method Jemal could use to keep his backup copies safe.	(1)

(nal has a school project to complete on the effects of global warming. He uses a rch engine to help him.	1
	(i)	When Jemal enters the words <i>global warming</i> into the search engine a large number of links are given.	
		Give two things Jemal can do to reduce the number of links.	(2)
	(ii)	Identify two other ICT based sources Jemal could use to help with his research.	(2)
	(iii)	Identify two non-ICT based sources Jemal could use to help with his research.	(2)



(c) When using the internet for research Jemal must ensure that the information provided is as accurate as possible.	
Explain how Jemal can do this.	(2)
(d) Jemal must produce a written report of his findings.	
Describe one legal constraint that Jemal must consider when producing this report.	
	(3)
(Total for Question 21 = 17	marks)

22		despread use of ICT has had a huge impact on the way that individuals and sations work.	
	(a) On	e impact is that some employees are able to work from home.	
	(i)	Identify one advantage and one disadvantage to an employee of working from home.	(2)
		Advantage	
		Disadvantage	
	(ii)	Identify one advantage and one disadvantage to a company of employees working from home. Advantage	(2)
		Disadvantage	

have resulted from the widespread use	(6)
	(0)
	/T + 1 (O + + 22 + 40 + 1)
	(Total for Question 22 = 10 marks)
	TOTAL FOR SECTION B = 84 MARKS
	I O IAL I ON SECTION D - OF MAINS

