Surname	Other names	
Edexcel International GCSE	Centre Number Cano	didate Number
Informatio	n and	
Communic Paper 1: Written pa	ation Techno	ology
	i per Ifternoon	Reference F0/01

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.

Turn over ▶



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	The	type	e of software used to write a letter is:	
	X	A	presentation software	
	×	В	database software	
	×	C	spreadsheet software	
	X	D	word processing software	
				(Total for Question 1 = 1 mark)
2	A gr	aph	ics tablet is a type of:	
	×	A	input device	
	X	В	processor	
	×	C	software	
	\times	D	output device	
				(Total for Question 2 = 1 mark)
3	An i	nter	national airline stores customer information.	
	This	info	ormation would be held on:	
	X	A	an embedded computer	
	X	В	a PC	
	X	C	a laptop	
	X	D	a mainframe computer	
				(Total for Question 3 = 1 mark)
4	Jam	es re	eceives an email. He sends this on to his friend.	
	This is known as:			
	X	A	copying	
	×	В	forwarding	
	×	C	attaching	
	X	D	formatting	
				(Total for Question 4 = 1 mark)

5		Most Internet Service Providers (ISPs) provide software that allows parents to prevent children from accessing inappropriate websites.				
	This t	ype	of software is:			
	×	A	anti-virus software			
	×	В	a firewall			
	×	C	filtering software			
	×	D	an internet browser			
			(Total for Question 5 = 1 mark)			
6	A cus	tom	er uses a bank card to pay for goods at a supermarket checkout.			
	Wher	e or	the card is the customer's electronic data stored?			
	×	A	Microchip			
	×	В	Printed name			
	×	C	Hologram			
	×	D	Printed number			
			(Total for Question 6 = 1 mark)			
7	A use	er ga	ins access to a secure area by placing their finger on a scanner.			
	This t	ype	of scanner is known as:			
	×	A	biometric			
	×	В	ergonomic			
	X	C	digital			
	×	D	magnetic			
			(Total for Question 7 = 1 mark)			
8	Whic	h or	e of the following is an example of applications software?			
	×	A	RAM			
	×	В	Web authoring			
	×	C	Operating system			
	×	D	BIOS			
			(Total for Question 8 = 1 mark)			



	Bar	code	e scanners are used in supermarkets.
	One	ber	nefit of using a bar code scanner is that:
	X	A	fewer goods are stolen
	X	В	correct change is always given
	X	C	customers can be served more quickly
	X	D	higher prices can be charged
			(Total for Question 9 = 1 mark)
0	Flas	h me	emory devices are available in a range of sizes.
	Whi	ch o	ne of these provides the largest storage capacity?
	X	A	500 Mb
	X	В	1 Tb
	X	C	500 Kb
	X	D	1 Gb
			(Total for Question 10 = 1 mark)
1	A co	mpa	any has an intranet.
	Whi	ch o	ne of these statements is correct?
	X	A	Only customers have access to information on the intranet
	X	В	Internet access is needed to access the intranet
	X	C	Only authorised users have access to the intranet
	X	D	Web based emails can be sent via the intranet
			(Total for Question 11 = 1 mark)
2	JRS	Banl	c offers an online banking facility to customers.
	Whi	ch o	ne of these will customers be able to do online?
	X	A	Pay cash into their account
	X	В	Transfer funds between accounts
	×	C	Withdraw foreign currency
	X	D	Pay cheques into their account



13 Com	3 Computer Aided Design (CAD) systems are widely used in manufacturing.				
One	One reason for using CAD systems is that:				
\times	A	designers do not need training			
\times	В	3D designs can be produced			
\times	C	they use few system resources			
\times	D	manufacturing time is reduced			
		(Total for Question 13 = 1 mark)			
		anking has led to an increase in phishing. Phishing is a method of misleading ito providing personal information.			
Iden	tify c	one measure that should be taken to prevent phishing.			
\times	A	Install a virus checker			
\times	В	Do not open email attachments			
\times	C	Install a firewall			
×	D	Do not reply to suspicious emails			
		(Total for Question 14 = 1 mark)			
15 A co	mpu	ter connects to the internet using an ISP.			
The	infor	mation that the ISP requires to identify the computer is:			
X	A	an email address			
×	В	an IP address			
×	C	a WEP code			
×	D	a telephone number			
		(Total for Question 15 = 1 mark)			
16 A co	mpa	ny keeps a record of every modification made to their database files.			
The	nam	e given to this record is a:			
X	A	data log			
X	В	transcription log			
×	C	transaction log			
×	D	backup log			
		(Total for Question 16 = 1 mark)			
		TOTAL FOR SECTION A = 16 MARKS			

SECTION B

Answer ALL questions.

17 (a) The devices shown are all parts of a computer system.

For each device give its name **and** tick the box to show whether it is used for input or output.

The first one has been done for you.

(6)



Device 1 Microphone Input Output



Device 2 Input Output



Device 3 Input Output



Device 4 Input Output

(b) Identify one device that can be used for both input and visual output.	(1)
(c) An optical disc is an example of portable storage media.	
(i) Name two types of optical disc.	(2)
(ii) Identify two examples of data that could be stored on an optical disc.	(2)
(d) Some removable storage devices use flash memory.	
Name one removable storage device that uses flash memory.	(1)
(Total for Question 17 = 12	marks)

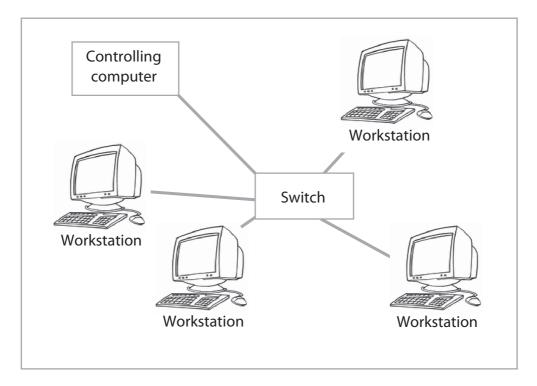
18 Cart-ink is a company that sells ink cartridges.

The company has a network of five PCs based on one site.

(a) Name this type of network.

(1)

(b) The network has four workstations linked through a switch to a controlling computer.



The name given to a **controlling computer** that runs a network is:

(1)

(c) Some staff have laptop computers, which connect wirelessly to the network.

Identify **two** methods of connecting wirelessly to the network.

(2)

2

(d) The	company employs a network manager.	
	(i)	One of the manager's tasks is to allocate user names and passwords to new staff.	
		When staff log on for the first time they are prompted to change their password.	
		Staff are encouraged to set strong passwords.	
		Give an example of a strong password. Explain why this password is strong.	(3)
		Example	
		Explanation	
	(ii)	Staff are also encouraged to protect their passwords.	
	(ii)	Staff are also encouraged to protect their passwords. Identify three precautions staff should take to protect their passwords.	(3)
1	(ii)		(3)
1	(ii)		(3)
1			(3)
1		Identify three precautions staff should take to protect their passwords.	(3)
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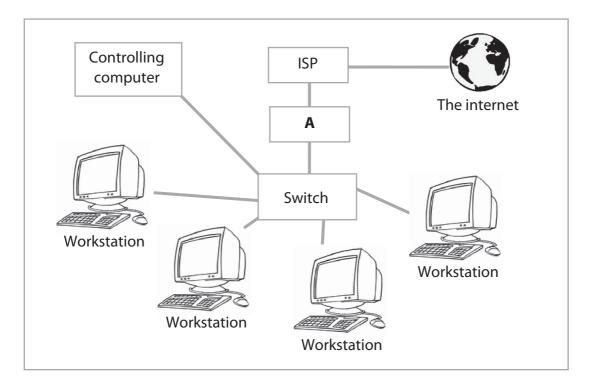
	(iii) The network manager also sets user access rights. State two ways in which access rights impact upon the user.	(2)
1		
2		
(6	e) Being able to set access rights is one benefit of having a network. Identify four other benefits.	(4)
1		
2		
3		

(f) The network has an internet connection.

The diagram shows how the network is connected to the internet.

(i) Identify the hardware device labelled **A** on the diagram.

(1)



Device A

(ii) Identify **two** types of connection that can be used to connect the company network to the internet.

(2)

1

(Total for Question 18 = 19 marks)

19	Jor	nas wants to buy a PC.			
	He intends to use it to:				
	•	download music			
	•	watch videos			
	•	play computer games			
	•	communicate with friends.			
	(a)	Jonas has been advised that in order to complete these tasks he will need a PC with a fast processor and a large amount of RAM.			
		(i) Name the units used to measure the speed of a computer processor.	(1)		
•••••		(ii) Explain why Jonas has been advised to buy a computer with a large amount of RAM.	(4)		
		(iii) Jonas has selected a high resolution monitor.			
		Identify another item of hardware that would enhance the viewing experience.			
		ехрепенсе.	(1)		
	(b)	Jonas will have applications software installed on his computer.	······································		
		Identify one other type of software that must also be installed to run the			
		applications.	(1)		



(c) Jonas buys a computer game. This includes a software licence.	
Explain the purpose of a software licence.	(3)
(d) Jonas communicates with his friends using an internet chat room.	
(i) Identify two other methods of communicating over the internet.	(2)
(ii) There are risks involved when using the internet to communicate. Identify three precautions Jonas should take to help him stay safe.	
identity times precautions somas should take to help him stay sails.	(3)

Discuss the advantages and disadvantages of each mothod	
Discuss the advantages and disadvantages of each method.	(6)



20	Su	pa-S	<i>pa</i> is a small health club in London, UK.	
	(a)		temperature in the club is maintained between 18°C and 20°C using an air ditioning system.	
		(i)	Identify one input device used to measure temperature.	(1)
			Device	
		(ii)	Identify the type of software that would be used to switch the air conditioning system on and off.	(1)
			Software	
	(b)	Julia	a works in the office at <i>Supa-Spa</i> .	
		Julia	a sometimes gets headaches when working on her computer.	
		(i)	Identify two settings that could be changed on her computer to reduce the problem.	
				(2)
1				
2				
		(ii)	Other than changing her computer settings, identify three other actions Julia could take to help reduce the problem.	
1				(3)
2				
3				

(c) The personal data of <i>Supa-Spa</i> members is stored in a	a database.
Identify three legal constraints placed on <i>Supa-Spa</i> w	
personal data.	(3)

(d) The risk of unauthorised access to stored data can be reduced by setting passwords.		
(i)	Describe two other ways of reducing the risk.	(4)
·····		
(ii)	Identify two risks to stored data, other than unauthorised access. For each give a different method of reducing the risk.	
	Tor each give a different method of reducing the risk.	(4)
	Risk 1	
	Method	
	Risk 2	
	Method	
	(Total for Question 20 = 18 m	

21	ICT	has	had a huge impact on individuals and society.	
	(a)	One	e significant impact is on people's working lives.	
		(i)	Describe the impact of ICT on people working in manufacturing.	(2)
		(ii)	Describe the impact of ICT on people working in education.	(2)
		(iii)	Describe the impact of ICT on people working in retail.	(2)
1	(b)		internet gives people access to a huge amount of information. internet is not regulated; this has benefits and drawbacks. One drawback is that the information might not be reliable. Give two ways in which a user could check the reliability of information.	(2)
2				



(ii) Discuss the benefits and other drawbacks of the lack of regulation.	(6)
(Total for Question 21 = 1	4 marks)
TOTAL FOR SECTION B = 80 TOTAL FOR PAPER = 100	

