Surname	Centre Number	Candidate Number
Other Names		0



GCSE

178/02

INFORMATION AND COMMUNICATION TECHNOLOGY

PAPER 2

Foundation Tier

P.M. THURSDAY, 16 June 2011 l hour

Examiner's Use Only					
Question	Maximum Mark	Mark Awarded			
1	6				
2	4				
3	4				
4	4				
5	7				
6	6				
7	4				
8	4				
9	5				
10	4				
11	5				
12	7				
Total Mark	60				

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use pencil or gel pen. Do not use correction fluid.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer all questions.

Write your answers in the spaces provided in this booklet.

If you run out of space in the question-and-answer booklet you may use continuation sheets. Number the questions clearly and put your sheets in this question-and-answer booklet.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.



Answer all questions

1. Place a tick (\checkmark) in the correct box to show whether each device is used for <i>Input</i> or

[6]

Device	Input	Output
Monitor	1	7
Microphone	2	8
Mouse	3	9
Joystick	4	10
Printer	5	11
Keyboard	6	12



2. Different types of storage can be used with computers.

[4]



Name four different types of storage device.

(i)	
(ii)	
(iii)	



4

3.	B. Place a tick (✓) in the correct box to show which of the following sentences are TRUE or FALSE. [4]				
			TRUE	FALSE	
	RON	A stands for Random Only Memory.	1	5	
		on the computer is switched off the content of <i>M</i> is lost.	2	6	
	RAN	M stores data temporarily.	3	7	
		ing more RAM to a computer will increase its essing power.	4	8	
					4
4.	Com	nputer Aided Design (CAD) software can help when de	esigning a hou	se.	
	(a)	Other than the mouse or keyboard, name an input do	evice used with	CAD software. [1]	0178 020003
	(b)	Name an output device other than a printer which software.	tends to be us	sed when using CAD	
	(c)	Give two features of CAD software which could be u	used by the des	signer. [2]	
		(i)			
		(ii)			
					(z)

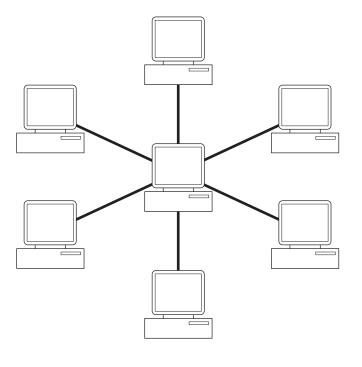




5.	(a)	Place a tick (\mathcal{I}) in the correct box to show whether each of the following statements	are
		TRUE or FALSE.	[4]

		TRUE	FALSE
	LAN stands for Local Area Network.	1	5
	WAN stands for World Area Network.	2	6
	A BUS is one type of network topolgy.	3	7
	A WAN is vulnerable to hacking and viruses.	4	8
<i>b)</i>	Give two advantages of networks over standalone co	omputers.	[2]
	(i)		
	(ii)		

(c) Networks can be arranged in different ways. Name the type of network shown below. [1]



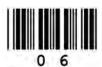


(178-02)

(a)	Name three principles of the DPA.		[3]]
	(i)			
	(ii)			
	(iii)			
(b)				
		Tick (✓)		
	Data used for national security.	1		
	Data used to prevent crime.	2		
	Data used when applying for a job.	3		
	Data for home use.	4		
				(
	ace a tick (\mathcal{I}) in the correct box to show whether each most likely carried out during the validation or verifical		lescriptions would [4]	- 1
	Description	Validation	Verification	
P	roof reading	1	5	
	Thecking that the date of birth is in the correct format g. 99/99/9999	2	6	
T	yping a password in twice	3	7	
C	thecking that the age of a pupil is between 11 and 16	4	8	
				(



8.	Com	puter	Assisted Learning (CAL) software is used to help pupils in schools.	
	(a)	Nan	ne two features of CAL software.	[2]
		(i)		
		(ii)		
	<i>(b)</i>	Give	e one advantage of using CAL.	[1]
	(c)	Give	e one disadvantage of using CAL.	[1]
9.	(a)	Tick	x (1) the correct statements about an operating system.	[3]
			Tick (✓)	
			The operating system is a program.	
			The operating system controls the running of all programs.	
			The operating system checks for viruses.	
			The operating system is hardware.	
			The operating system manages memory. 5	
	(b)		nplete the table by inserting the letter for the most suitable type of operating each example. <i>Use a term once only</i> .	g system [2]
		A B C	Real Time (process control) Real Time (transaction processing) Batch Processing	
			EXAMPLE OPERATING SYSTEM	
		I	BILLING SYSTEM 1	
		Ι	LIFE SUPPORT IN A HOSPITAL 2	



10.	• Choose from the following words to complete the sentences shown below by writing the letter A, B, C or D in the correct box.			the letter
		A B C D	Palmtops Mainframes Microcomputers Microprocessors	
	(a)		can be used to manage large networks.	[1]
	<i>(b)</i>		are found in schools and often called PCs.	[1]
	(c)		are embedded in devices such as washing machines.	[1]
	(d)		can be used as personal organisers with access to the Internet.	[1]



11.	Life s	support systems in hospitals use sensors.	
	(a)	Give two sensors used in life support systems. [2]	
		(i)	
		(ii)	
	(b)	Give one format used to display the readings from sensors. [1]	
	(c)	Give two advantages of using sensors in life support systems. [2]	
		(i)	
		(ii)	
12.	A sch	nool uses a computer system for school administration.	
	(a)	The school administration system keeps the names, addresses and telephone numbers of pupils. Give three <i>other</i> items of data you would expect to be kept on this database. [3]	
		(i)	
		(ii)	
		(iii)	
	(b)	Name two <i>other</i> administration tasks the school could carry out using the computer system. [2]	
		(i)	
		(ii)	
	(c)	Give two benefits to the school of using a computer for school administration. [2]	
		(i)	
		(ii)	

