	Ξ
	2
	>
(1)	=
4	6

Surname	Centre Number	Candidate Number	
Other Names		0	



GCSE

4333/01

INFORMATION AND COMMUNICATION TECHNOLOGY UNIT 3: ICT in Organisations

P.M. WEDNESDAY, 12 June 2013 1½ hours

Examiner only

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 use the continuation pages at the back of the booklet, taking care to number the question(s) correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question. Quality of written communication will be assessed in question 11.



Answer all questions.

1. Complete the following table by **naming** each device and **ticking** (/) the correct box to show whether the device is used for either *Input* or *Output*. [6]

The first row has been completed for you.

Device	Input	Output
Scanner	/	
	1	2
	3	4
	5	6



[1]

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2. ICT systems use different <i>Human-Computer Interfa</i>	iaces (HCI	L).
--	------------	-----

(a) (i) State the type of HCI shown below.



HCI:	

(ii) Give four features of this type of <i>HCI</i> .	[4]
Feature 1:	
Feature 2:	
Tentine 2.	
Feature 3:	
Feature 4:	
State two other <i>different</i> types of HCI and give one <i>different advantage</i> of each .	[4]
HCI Type 1:	
Advantage:	
HCI Type 2:	
Advantage:	



(b)

3. (a) Name the topologies of the networks shown below.						
Topolog	gy:		Topology:		Topology:	
(b)		y different comporting the purpose of Switch	of each of the follo	owing devices.	er network.	[3]
	(ii)	Gateway				
	(iii)					



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	puter network systems have many advantages and disadvantages over standputers.	lalone
(i)	Give two advantages of a network over standalone computers.	[2]
Adva	intage 1:	
Adva	intage 2:	
(ii)	Give one <i>disadvantage</i> of a network over standalone computers.	[1]
(i)	Many organisations use an <i>Intranet</i> . State what is meant by an <i>Intranet</i> .	[1]
(ii)	Many organisations use an <i>Extranet</i> . State what is meant by an <i>Extranet</i> .	[1]



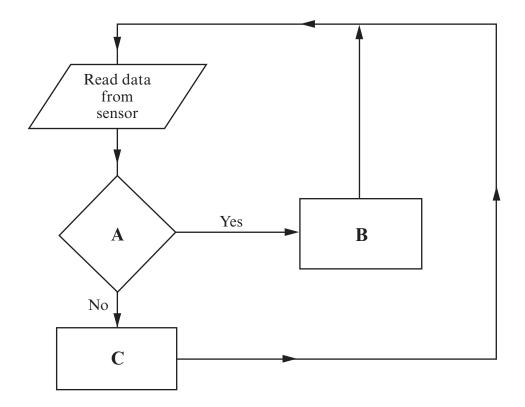
(c)

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4.	(a)	Tick (/) the correct boxes to show which of the following are advantages or disadvantage	25
		of computerised data logging.	4]

Accurate readings Initial cost of the data logging equipment Data can be collected automatically Can be used in dangerous situations Disadvantage 2 4 6 8

(b) The diagram below shows a general ICT control system.





only	

Name	an	ICT	control	(feedback)	system	of	your	choice	and	answer	the	following
questic	ons	based	l on your	choice.								

ICT Control System: Name a sensor and an output device used in your chosen control system. [2]

Sensor:

Output device:

Complete the following table for the ICT control system of your choice, giving a suitable process for the letters **A**, **B** and **C** labelled in the diagram opposite. [3] (ii)

A	
В	
C	



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5.	Ехре	ert systems are widely used in medicine.	Exami only
	(a)	State one purpose of an expert system in medicine.	[1]
	(b)	Give two advantages of using an expert system in medicine. Advantage 1:	[2]
		Advantage 2:	
	(c)	Give one <i>disadvantage</i> of using an expert system in medicine.	[1]



Robo	ots are widely used by organisations.	
(a)	Name three tasks that could be carried out by robots.	
	Task 1:	
	Task 2:	
	Task 3:	
(b)	Give two advantages of using robots instead of humans.	
	Advantage 1:	
	Advantage 2:	
(c)	Give one <i>disadvantage</i> of using robots instead of humans.	



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All c	omputers have an Operating System.	Ex
(a)	Describe what is meant by the term 'Operating System'.	[2]
(b)	Give three functions of an <i>Operating System</i> . Function 1:	
	Function 2:	
	Function 3:	







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8. *Smash Hits* is a brand new online store that sells DVDs, Blu-ray, games and music downloads. The company has just launched its new website. The *home page* can be seen below.



[1]		is meant by a <i>Home Page</i> .	State what	(a)
d it is placed in a premium	ove is 728 × 90 pixel	the banner labelled A about the top of the webpage.		(b)
[1]	anner.	ame given to this type of b	State the n	
h the website features listed [3]	the webpage above	labels B , C and D shown in	Match the below.	(c)
	Letter	Website feature		
		Hyperlink		
		Web Icons		
		Search Box		



(d)	Sma Triai	sh Hits have paid to have a sponsored link to their website appear in the Golderngle.
	(i)	Describe what is meant by the term <i>Golden Triangle</i> . [2]
	(ii)	Give one reason why <i>Smash Hits</i> want to ensure that a link to their website appears within the <i>Golden Triangle</i> .



	Smarh	-(i)Go	
(a)	Name one device that could be used to dra	w an image on a computer.	[:
(b)	Tick (✓) the correct boxes to show which of be used when producing a still digital imag		that coul
	Standard tools	Tick (✓)	
	Transition		
	Cloning	2	
	Tweening	3	
	Layering	4	
	Distortion	5	
	Pivot tables	6	
(c)	Describe what is meant by a Bitmap Graph	ic.	[1
(d)	State a problem with enlarging bitmap grathat will overcome this problem.		[2
t]			[2



	(e)	When Smash Hits publish their logo on a web page, the image is optimised.	
		State what is meant by <i>optimisation of images</i> for the web and give one <i>advantage</i> optimising images.	of 2]
).	Sma	sh Hits also sell music downloads.	
	(a)	Name a suitable <i>file format</i> for downloading music from the Internet.	1]
	(b)	Give one advantage of using this format.	 1]
	(c)	Give one disadvantage of using this format.	



11.	The Smash Hits website uses an e-commerce (online shopping) system.
	Discuss the advantages and disadvantages of an <i>e-commerce system</i> to the <i>Customer</i> and to <i>Smash Hits</i> . [10]
••••	



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END OF PAPER	



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Question number	Additional page, if required. Write the question numbers in the left-hand margin.	Examine only



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