Surname	Centre Number	Candidate Number
Other Names		0



GCSE

4333/01

INFORMATION AND COMMUNICATION TECHNOLOGY

UNIT 3: ICT In Organisations

P.M. WEDNESDAY, 21 May 2014

1 hour 30 minutes

Suitable for Modified Language Candidates

For Ex	aminer's us	e only
	Maximum Mark	Mark Awarded
Total	80	

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 **12**.



Answer all questions.

1. (a) Tick (/) the correct boxes to show if the following devices are used for Input or Output.

DEVICE	INPUT	OUTPUT
Scanner	1	2
Webcam	3	4

(b) Other than a touch sensitive screen, scanner or webcam, name **two** other different devices. **Tick** (/) to show if the devices are used for either *Input* or *Output*. [4]

DEVICE	INPUT	ОИТРИТ



(c)	Tick (/) the correct boxes to show which of the following statements about	music files are
	True or False.	[3]

STATEMENT	TRUE	FALSE
A music clip stored in MP3 format would take up more memory than the same clip stored in WAV format.	1	2
Music files stored in MP3 format are better quality than files stored in WAV format.	3	4
MP3 files need to be decoded when used, which means they do not load as quickly as some other formats.	5	6
(d) Give the name of the <i>interface</i> that allows a music communicate with each other.	cal instrument a	and a computer to [1]
(e) Explain why sound signals need to be converted be computer.	efore they can b	pe processed by a



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2.	(a)	Use Pres	the correct term entation Software:	from the	list below to	match o	each d	of the	description	s about
			Transitio	n I	Master page	•	Bullet			
			HTML		Animation	H	Hotspo	t		
		(i)	Getting some of t	he content	on a slide to	move:				[1]
		(ii)	Movement from o	ne slide to	another:					[1]
		(iii)	An image contain	ing a hype	rlink:					[1]
	(b)	Peop	ole often use prese	ntation sof	tware to crea	ate a slide	show t	o displa	ay informat	ion.
		(i)	Give two reasons	s why you v	would use a	Template	when o	creating	g a slidesh	ow. [2]
		•••••								
		•••••								
			O: " !" !							
		(ii)	Give one disadva	antage of u	sing present	ation soft\	ware.			[1]
		•••••								



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- 3. Different types of *Human-Computer Interfaces (HCI)* are used on ICT systems.
 - (a) Name the types of HCI shown below.

[2]



HCI:



HCI:

(b) Tick (J) the correct boxes to show which Application best matches the HCI.

[3]

		НСІ	
APPLICATION	MENU DRIVEN	VOICE DRIVEN	BIOMETRICS
Retina scanning to gain access to a high-level security room	1	2	3
Making a cash withdrawal at an Automated Teller Machine	4	5	6
Using your mobile phone hands free	7	8	9



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4331 010005 (c) Another type of HCI is a *Touch Sensitive* interface.



(i)	Give one type of device which uses a touch sensitive screen/interface mobile phones as your answer.	Do not use [1]
(ii)	Give two advantages of using a touch sensitive screen/interface. Advantage 1:	
	Advantage 2:	
(iii)	Give one <i>disadvantage</i> of using a touch sensitive screen/interface.	[1]



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4.	(a)	Give three <i>techniques</i> used to manipulate digital images. [3]	
		Technique 1:	
		Technique 2:	
		Technique 3:	
((b)	Give two advantages of vector graphics over bit mapped graphics. [2]	
		Advantage1:	
•••			
		Advantage2:	
• · ·			

control.										
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/ 1	Describe and a reference of the Office of	
(a)	Describe why animators create a Storyboard.	
(b)	An animator has been asked to produce an animation that shows a caside of the screen to the other.	ar moving from
	Name two suitable animation techniques that the animator could use	. Explain <i>how</i> t
	animation techniques would be used to produce the car animation sh	own above. [2
	Animation Technique 1:	
	Animation Technique 2:	



7. A computer database is used to store details on all the cars a garage has for sale. Part of the database is shown below.

Registration Number	Туре	Colour	Engine	Fuel	Price (£)
CT57 WPD	Estate	В	2500	D	6,000
DR01 GJA	4 × 4	G	3500	D	23,995
AB51 CKB	Saloon	В	3000	Р	32,565
KD55 NKT	Estate	R	1600	Р	8,000
AC09 UDR	Hatchback	S	2000	D	9,654
MY02 MDT	4 × 4	В	3000	D	25,895
CP51 ANC	Hatchback	0	2200	Р	14,995

(a)		olution to tl		colours, as	s in the Co	iour tield al	bove. [2]
	 		 				· · · · · · · · · · · · · · · · · · ·
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Describe of the manhors to an analytic advantage of the state of the s
Describe other advantages and disadvantages of keeping data on a computer system. [4]
L ^T .



8. (a) Tick (/) the correct boxes to show whether each of the following statements about an Operating System is True or False. [3]

STATEMENT	TRUE	FALSE
An operating system is a type of hardware	1	2
An operating system ensures that data is written to the backing store correctly	3	4
A computer will not work unless it has an operating system.	5	6

(b) For **each** of the following examples of use, state the most suitable processing method. The first one has been done for you. [2]

Example of use	Processing method
Controlling a nuclear reactor	Real-time Control Processing
Booking theatre tickets	
Processing electricity meter readings to produce a bill	

(a)	State two services offered to online banking customers.	
	Service 1:	
	Service 2:	
(b)	Give two benefits of online banking to customers. Benefit 1:	
	Benefit 2:	
(c)	Give one concern (worry) that customers may have with the use of online banking.	

The	use of ICT has had an impact on the way people work.	Ex
(a)	State what is meant by <i>Teleworking</i> .	[1]
(b)	Give two advantages of teleworking for the Employee.	[2]
	Advantage 1:	
	Advantage 2:	
(c)	Give two advantages of teleworking for the Employer. Advantage 1:	[2]
	Advantage 2:	
(d)	Give one advantage of teleworking to Society.	[1]



Tick (/) to show your chosen business application from the list below. Tick (/) Robotics Expert systems	
Expert systems	
(a) Give one specific use of ICT in your chosen application.	[1]
(b) State one method of data capture used in your chosen application.	[1]
(c) Give two advantages of using ICT in your chosen application. Advantage 1:	[2]
Advantage 2:	
(d) Give one disadvantage of using ICT in your chosen application.	[1]



only



	Examiner only
END OF PAPER	



Question number	Additional page, if required. Write the question number(s) in the left-hand margin.	Examiner only
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Question number	Additional page, if required. Write the question number(s) in the left-hand margin.	Examine only



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