Surname	Centre Number	Candidate Number
Other Names		0



GCSE

4333/01

INFORMATION AND COMMUNICATION TECHNOLOGY UNIT 3: ICT IN ORGANISATIONS

P.M. WEDNESDAY, 13 June 2012

1½ hours

Suitable for Modified Language Candidates

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.

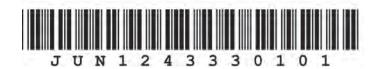
Write your answers in the spaces provided in this booklet.

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 9.



	Answer all	questions.	
(a) Tick (\mathcal{J}) the con	rrect boxes to show if th	e following devices are	used for <i>Input</i> or <i>Outpu</i> [
DEVICE	NAME	INPUT	OUTPUT
	Webcam	1	2
	Microphone	3	4
	Printer	5	6
	Graphics tablet	7	8
(b) State what is m	eant by <i>Multimedia</i> .		I



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(c)	Which of the following statements about storing sound files in MP3 format are <i>Tru False</i> ? Tick (/) the correct boxes.		
		True	False
	Copyright laws do not apply to music stored in MP3 format.	1	2
	MP3 files are compressed sound files.	3	4
	MP3 files are quick to transfer.	5	6
(d)	Musical devices often have a <i>MIDI interface</i> . State the purpose of a MIDI interface.		[



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Turn over.

2.	(a)	Name the <i>topology</i> of the network shown below.			[1]
		Topology:			
	(b)	Name two other types of topology.			[2]
		Topology 1:			
		Topology 2:			
	(c)	Tick (✓) the correct boxes to show if each statement about r	networks is T	rue or False	[4]
		An <i>Intranet</i> is a private network used within an organisation.	1	2	
		The <i>Internet</i> is a local network.	3	4	
		An <i>Extranet</i> is an internal network that cannot be accessed by customers.	5	6	
		Backups are not required with networks.	7	8	



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[3]

3.	Many different types	of Human-Compu	ter Interface (HCI) are	used on ICT systems.

(a) Name the type of HCI shown below.





Interface:

(b) Tick (\mathcal{I}) the correct box to show which HCI is the most suitable for each use.

Use	Command Line	Biometric	Touch- Sensitive
Thumbprint recognition to loan a library book	1	2	3
Choose items at a Point of Sale terminal	4	5	6
Writing batch files for the network	7	8	9

(c)	Give two advantages of using <i>voice recognition</i> .	[2]
	Advantage 1:	
	Advantage 2:	



Disadvantage 1: Disadvantage 2: (e) Tick (I) the correct box to show if the task is carried out by an Operating Syapplications Software. Task Operating System Software Controlling input and output devices Create a webpage Ensure that data is written to the backing store Boots up the computer Tick (I) the correct box to show if the task is carried out by an Operating System Software. Task Operating System Software. Fig. 1 Boots up the computer Task Operating System Software. Fig. 2 Create a webpage Boots up the computer Task Operating System Software. Task Operatin	<i>d)</i>	Give two disadvantages of using <i>voice recognition</i> .		
Tick (/) the correct box to show if the task is carried out by an Operating Sy Applications Software. Task Operating System Softw Controlling input and output devices Create a webpage Ensure that data is written to the backing store Tick (/) the correct box to show if the task is carried out by an Operating Sy Applica Softw Applications Software. Task Operating System Softw Software.		Disadvantage 1:		
Task Operating System Controlling input and output devices Create a webpage Ensure that data is written to the backing store Operating System I 2 4 Ensure that data is written to the backing store 5 6		Disadvantage 2:		
Controlling input and output devices Create a webpage 3 Ensure that data is written to the backing store \$\hat{System}\$ Softw 2 6			rried out by an C	perating System
Create a webpage 3 4 Ensure that data is written to the backing store 5 6		Task		Application Software
Ensure that data is written to the backing store 5 6		Controlling input and output devices	1	2
		Create a webpage	3	4
Boots up the computer 7 8		Ensure that data is written to the backing store	5	6
		Boots up the computer	7	8



4. A computer database is used to store details of the clothes a shop has for sale. Part of the database is shown below.

Item No.	Туре	Colour	Size	Price (£)
05674	Jumper	В	S	39.99
09923	Jacket	G	M	84.99
57890	Polo Shirt	В	L	19.99
43627	Jumper	R	L	32.45
00932	T-Shirt	Y	S	8.50

(a) The data in the Colour and Size fields is encoded. Give two reasons why data is encoded. [2]

(b) Give one problem that could occur with using one character for encoding colours. What should you do to solve the problem? Give an example. [2]



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(c)	Give two advantages and two disadvantages of using ICT systems to store and product data.
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•••••	
•••••	
•••••	
•••••	
•••••	



. ((a)	Anin	nators use many different techniques.
		(i)	Name the key frame (flash) animation technique used to get the computer to generate the <i>in-between frames</i> . [1]
		(ii)	Name the animation technique used to allow an animator to <i>track the frame-by-frame motion</i> of an object. [1]
		(iii)	State two effects that increasing and/or decreasing the frame rate would have on the animation. [2]
(<i>b</i>)	State	what is meant by <i>Persistence of Vision</i> . [1]



(c) Describe	what is meant by <i>Rotoscoping</i> .	
(d) Describe	what is meant by Stop Motion.	



Bank of Monee Date	(a)	Whi boxe		ving items are en	coded on a ba	nk cheque? Tick (/) the correct [2]
Amount			Bank of Mo	nee	Date		
A N Other LE4590 374E5327 102201			Pay				
ITEM TICK (/) Account Number			Amount				
ITEM TICK (/) Account Number Date Sort Code Name 4 (b) Give three services available at an Automatic Teller Machine (ATM). Service 1 Service 2						A N Other	
Account Number Date 2 Sort Code Name 4 (b) Give three services available at an Automatic Teller Machine (ATM). Service 1 Service 2			464590	37465327	105501		
Date Sort Code 3 Name 4		ITE	M		TICK (🗸)		
Sort Code Name 4 (b) Give three services available at an Automatic Teller Machine (ATM). Service 1 Service 2		Acc	ount Number		1		
Name 4 (b) Give three services available at an Automatic Teller Machine (ATM). [3] Service 1 Service 2		Date	e		2		
(b) Give three services available at an Automatic Teller Machine (ATM). [3] Service 1 Service 2		Sort	Code		3		
Service 1 Service 2		Nan	ne		4		
Service 2	(b)	Give	e three services a	vailable at an <i>Aut</i>	omatic Teller M	achine (ATM).	[3]
		Serv	rice 1				
Service 3		Serv	vice 2				
		Serv	vice 3				

	(c)	Give	e two advantages of A	TMs for the custome	er.		[2]
		Adva	antage 1				
		Adva	antage 2				
	(d)		e two advantages of A				[2]
		Adva	antage 2				
7.	(a)	Com	nplete the following so	entences about webs	ites, using only th URL	e words given belo LAN	ow.
			Web Server	Hosted	Name	Website	
		(i)		is a lang			[1]
		(ii)		s for every website or			
		()					[1]
		(iii)	In order to allow pe	eople to view a websi	ite over the intern	et it must be	
				on a			[2]



	(i)	Hotspot	
	(ii)	Home Page	
	(iii)	Hyperlink	
	(iv)	Leader Board	
(c)	Whe	Information and communications technology	duced similar to that shown belo
(c)	Whe	Information and communications becausing the process of the second of th	
(c)	Whe	Information and communications behaviology and accommunication behaviology and accommunication behaviology and behavior at ICT, as done and an extension property of a Communication behavior at ICT, as done and an extension property of a Communication behavior at ICT, as done and an extension property of a Communication behavior at ICT, as done and an extension property of a Communication behavior at ICT, as done and a second of a Communication behavior at ICT and a Communication behavior at ICT activities linked to the English Primary Strategy, All games as second on by and © copyright 2011 of James Barrett	



3.	(a)	Which of the following statements apply to the <i>Data Protection</i> A correct boxes.	Act 1998 ? Tick (✓) the [3]
		Statement	TICK (✓)
		Data must not be transferred outside EU to countries without adequate provision	1
		Data must be adequate, relevant and not excessive	2
		Music files can only be shared with other family members	3
		Data must be deleted when no longer needed	4
		Software should not be copied	5
		Digital signatures are legally binding in the same way as handwritten signatures	6
	(b)	State a <i>crime</i> covered by the <i>Computer Misuse Act 1990</i> , describe method of <i>prevention</i> .	e a consequence and a [3]
	<u></u>		
	•••••		
	•••••		
	•••••		



Discuss the about the bound of	ove statement. In you working pract employers.	your answer inclices. List the adv	ude recent develo vantages and disa	pments in ICT that advantages they offer	hav r tl
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					• • • • • •



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