Surname	Centre Number	Candidate Number
Other Names		0



GCSE

4333/01



INFORMATION AND COMMUNICATION TECHNOLOGY

UNIT 3: ICT in Organisations

THURSDAY, 25 MAY 2017 - AFTERNOON

1 hour 30 minutes

For Exa	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 page 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.
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1. Name **four** *ICT devices* and **tick** (/) the correct box to show whether the device is suitable for either *Input* or *Output*. [8]

ICT Device	Input	Output

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(a)	Draw	v a diagram for each of the following network topologies.	Ex
(~)	(i)		[1]
	(-7		
	(ii)	Ring [[1]
	(iii)	Name and draw a diagram of a different network topology and label ar	ny
	` ,	hardware.	4]
		Name:	
(b)		e what LAN and WAN stand for:	
			[1]
	WAN	l:[[1]



		Advantage 2:	
		Advantage 3:	
	(ii)	Give two <i>disadvantages</i> of networked computers over standalone computers. Disadvantage 1:	
		Disadvantage 2:	
 (d) E	Expla	ain how data is transmitted using packet switching.	[3



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3.	A sal	esperson uses multimedia to create presentations to help sell products.
	(a)	Complete the following sentence to describe what is meant by the phrase <i>multimedia</i> .
		Use each word only once. [3]
		Hardware Video Clipart
		Animation Software Screen
		Multimedia is using to electronically combine text, still
		images,, audio, and
		interactive components, to create presentations.
	(b)	Give two <i>different</i> types of interactive components which could be used in multimedia presentations. [2]
		Type 1:
		Type 2:
	(c)	Give one <i>disadvantage</i> of using multimedia components to create presentations. [1]
	•	



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4.	Ther	e are many different animation techniques used by animators.	
	(a)	Describe how the animation techniques tweening and rotoscoping work.	
		TIMELINE 5 10 15 20 25 30 35 40 1 1 2 2 3 3 3 40 2 3 3 3 40 3 4 4 5 6 6 4 5 6 6 6 5 6 6 6 6 7 7 7 7 8 7 9 7 1 7	
		Tweening [3	3]
		Rotoscoping	2]



(b)	Describe what will happen if you increase or decrease the frame rate too much in animation.
	Increase:
	Decrease:
(c)	State the name given to the animation technique where multiple images blend into single image to create the illusion that objects are moving.



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	Device Or Sensor Program Output Device
(a)	Give a suitable device or sensor which could be used for input in this control system
(b)	Give a suitable output device which could be used in this control system.
(c)	Describe how the devices or sensor you have named above are used in this automati park barrier system.
(d)	Some ICT control systems use 'feedback'. Explain what is meant by feedback in a consystem.



6.	Physical methods and software methods are used to secure data in a computer system.	
	Give two physical and two software methods of securing data.	4]
	Physical method 1:	
	Physical method 2:	
•••••		
	Software method 1:	
	Software method 2:	
•••••		

7.	Different types of Human-Computer Interfaces (HCI) are used in ICT systems.
	Give two different advantages and one different disadvantage for each of the following HCIs.
	A CONTROL OF THE PARTY OF THE P
	Biometrics [3]
·····	



Graphical user interface	[3]	Examin only
Command line interface	[3]	



8.	Two	of the most widely used image formats are JPEG and GIF.	Exa 0
	(a)	Give two advantages of storing an image as a JPEG. Advantage 1:	[2]
		Advantage 2:	
	(b)	Give two different advantages of storing an image as a GIF. Advantage 1:	[2]
		Advantage 2:	



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9.	 Health and safety regulations in the workplace ensure employees are able to use their IC equipment safely and avoid injury. 	
	Give four safety measures an employer should put in place to safeguard their employees when using ICT equipment. [4]	
	Safety measure 1:	
	Safety measure 2:	
•••••		
•••••		
	Safety measure 3:	
•••••		
	Safety measure 4:	
•••••		

10.	Jonah's design company are considering allowing their employees to telework.		
	Give four advantages that teleworking gives Jonah's <i>company</i> .	[4]	
•••••			
•••••			
•••••			
•••••			



. Describe a payroll application that you have studied.	
Your answer should refer to:	
 how data is captured the most suitable processing method and why it is the r 	nost suitable
the documents outputthe two types of files used by the payroll application	
the same fields used in both files and one additional fiea suitable back-up system for the payroll application.	ld [11 QWC]
Remember that the quality of written communication will b	
remember that the quality of whiteh communication will b	o addeddda iir ano quedaen.



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