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Surname	Centre Number	Candidate Number
Other Names		0



## **GCSE**

4333/01



## INFORMATION AND COMMUNICATION TECHNOLOGY

**UNIT 3: ICT in Organisations** 

P.M. THURSDAY, 21 May 2015

1 hour 30 minutes

For Examiner's use 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**.



		all questions.	
Tick (√) Output.	the correct box to show whether	the devices listed belo	ow are used for either <i>Input</i>
	DEVICE	INPUT	OUTPUT
	Graphics tablet	1	2
	Speaker	3	4
	Webcam	5	6
	Mouse	7	8
Diagran	II.		
•			







Graphic A

**Graphic B** 

(a) Tick (/) the correct box to show whether the statements below apply to a bitmap or vector graphic. [5]

	STATEMENT	BITMAP	VECTOR			
	Graphics can be scaled up without loss of quality.	1	2			
	Graphics are made up of pixels.	3	4			
	Graphics that use points, lines, curves and shapes stored as mathematical equations.	5	6			
	The larger the graphic, the more pixels are needed and so the file size becomes larger.	7	8			
	If small graphics are enlarged, the graphic can become blurred.	9	10			
(b)	Graphics published on web pages should be optimised.					
	(i) State what is meant by <i>optimisation of graphics for</i> optimising a graphic.	<i>r the web</i> and	give <b>one</b> way of [2]			



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	(ii) Give <b>one</b> advantage of optimising graph	phics for publishing on a web page.	[1]
nim	ators use many different techniques.		
(a)	Name the animation techniques described in	n the table below.	[3]
	Description	<b>Animation Technique</b>	
	Live actors are filmed. Frames are then traced over to produce a cartoon effect animation.		
	Clay figures are photographed, moved and photographed again. This is repeated since each photograph forms a frame that can be played in sequence to produce an animation.		
	The process of getting the computer to create the in-between frames between key frames in an animation.		
(b)	Describe what is meant by onion skinning.		[2]
	Describe in detail what is meant by a story b	oard.	[2]



5.	Many musicians use ICT.					
	(a)	Name the interface that allows computers and musical instruments to communicate with each other. [1]				
	(b)	Give <b>three</b> <i>different</i> uses or advantages of music composition software. [3]				
	(c)	Some signals from a computer need to be converted so they can be output. Describe why this conversion is needed to play music through a speaker. [2]				
	(d)	Give <b>one</b> benefit and <b>one</b> drawback of using <i>WAV</i> sound files against using <i>MP3</i> sound files.  [2]  Benefit:				
		Drawback:				

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6.	Some	e computers use a <i>Graphical User Interface (GUI)</i> .	
	(a)	Tick (/) the correct boxes below to show which two statements a	re true for a GUI. [2]
		STATEMENT	Tick (√)
		A GUI consists of Windows, Icons, Menus and Pointers.	1
		A GUI is less demanding on memory compared with a text-only interface.	2
		A GUI allows you to customise your desktop.	3
		A GUI does not allow the use of an on-screen keyboard.	4
	(b)	Different Human Computer Interfaces are used with different device named below give a suitable input device and a <i>different</i> example	
		BIOMETRIC:	
		Suitable input device:	
		Example of use:	
		VOICE DRIVEN:	
		Suitable input device:	
		Example of use:	
	(c)	(i) State the name given to the <b>type</b> of interface that is a text-o	nly interface. [1]



		(ii)	· ·				
			Advantage 2:				
7.	(a)	Com belo	nplete the following se w.	entences about webs	sites, using only t	he terms given in ca	pitals
			HTML	SEARCHED	URL	LAN	
		V	VEB SERVER	HOSTED	POS	INTRANET	
		(i)	The unique address	s for every website o	n the internet is c	alled a	[4]
		/ii\		io o lo	anguago usod to o	rooto a wob paga	[1] [1]
		(ii) (iii)	In order to allow peo				ניו
		(111)	in order to allow per				[2]
						•	[-]
	(b)	State	e what is meant by the	e following <b>two</b> web	site terms.		[2]
			Term		Meaning		
			Home page				
			Hotspot				
							J

	(c)	Give <b>one</b> reason why you would use a <i>template</i> when creating a website.	[1]
	(d)	Banner advertisements are often placed in a prominent location on a web page.  State the <b>name</b> given to this type of banner.	[1]
8.	(a)	Give <b>two</b> advantages and <b>two</b> disadvantages of computerised data logging.  Advantage 1:	[4]
		Advantage 2:	
		Disadvantage 1:	
		Disadvantage 2:	
	(b)	Many pilots learn to fly using flight simulation models.  (i) State what is meant by a simulation model.	[2]



		(ii)	Give two advantages of using simulation modelling.  Advantage 1:	[2]
			Advantage 2:	
		(iii)	Give <b>one</b> disadvantage of using simulation modelling.	[1]
9.	Expe (a)	Expert systems are used by car mechanics.  (a) State <b>one</b> use made of an expert system by a car mechanic.		[1]
	•••••			
	(b)		e two advantages of using an expert system. antage 1:	[2]
	(b)	Adv		[2]



	(c)	Give two disadvantages of using an expert system.  Disadvantage 1:	[2]	
		Disadvantage 2:		
	(d)	State what is meant by the term artificial intelligence (AI).	[1]	
10.	email comp	web based email accounts use <i>cloud computing</i> technology. The email soft data are not stored on a local computer; instead they are stored in the email couter cloud.  State what is meant by the term <i>cloud computing</i> .	ware and company's	
	(b)	Give <b>one</b> advantage of <i>cloud computing</i> .	[1]	
	(c)	Give <b>one</b> potential risk with <i>cloud computing</i> .	[1]	



Some orga	anisations have an online shopping <i>(e-commerce)</i> facility.	E
	ne advantages of an e-commerce system to the organisations <b>and</b> to the custo	omers. [6]
	TURN OVER FOR QUESTION 12.	



12.	Using ICT has had an effect on the way people work. Videoconferencing is one of these impacts	e of these impacts.	
	Describe what is meant by videoconferencing and discuss in detail the <b>advantages</b> and <b>disadvantages</b> of videoconferencing to both the employer <b>and</b> to their staff. [10]		
	Remember that the quality of written communication will be assessed in this question.		
		<b>.</b>	
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