Surname	Centre Number	Candidate Number
Other Names		0



GCSE

4331/01

INFORMATION AND COMMUNICATION TECHNOLOGY

UNIT 1: Understanding ICT (Short Course) Information and Communication Technology UNIT 1: Understanding ICT

A.M. THURSDAY, 6 June 2013

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 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.



1. The first draft of a poster to advertise a meeting for the school's ski trip is shown below.

SKI TRIP MEETING Parents and students welcome Room D2 25th June 2013 at 7pm

The draft is improved and the new version is shown below.



(a) **Tick (/)** the correct boxes to show the **three** features of Desk Top Publishing (DTP) software used on this new poster. [3]

Features	Tick (✓)
Clip Art	1
Bullet points	2
Table	3
Centre text	4
Underline	5
Border Art	6
Italic Font	7



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0	nlv

(b)	Name the feature of DTP software that could be used to find a similar meaning for a word.
(c)	The school would like to send parents a letter informing them of the ski trip meeting. Give the name of a feature of DTP software that can automatically combine names and addresses to send the same letter to many people. [1]



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		DATA	INFORMATION	KNOWLEDGE
seconds	nlete who ran the race in 15 s was the fastest and is the of the race	1	2	3
15 secoi	nds, 17 seconds	4	5	6
15, 17		7	8	9
. (a)	Which of the following states True or False? Tick (/) the cor		Geographical Informat	ion Systems (GIS) a
Statem	ients		Tr	ue False
You ca	an see an aerial view of your scho	ool.		
Somet	imes the information about rout	es on a GIS	is out of date.	
All mo	bbile phones have a built in GIS	feature.		
GIS ca	an determine the distance from o	one place to	another.	
	Mobile phones use Bluetooth the user of using Bluetooth con	nnectivity.	-	
(b)				
(b)	Disadvantage			



4. A school keeps records of students going on the ski trip in a computer database. Part of this database is shown below.

Student ID Number	Name	Gender	DOB	Ski Ability	Paid
1378	T Taylor	M	18/05/1997	Beginner	Yes
1321	N Khan	M	25/06/1997	Intermediate	No
1354	P Andrews	F	14/03/1997	Advanced	Yes
1367	C Jones	F	46/07/1997	Advanced	Yes
1245	K Parry	F	28/07/1997	Intermediate	Yes
1379	M Singh	M	21/12/1996	Beginner	Yes
1327	J Squires	F	13/04/1997	Beginner	No

(a)	State how many fields are sho	own in the above database.		[1]
(b)	State how many records are s	hown in the above database		[1]
(c)	Name the key field			[1]
(d)	State the purpose of the key f	field.		[1]
(e)	Which of the following data: Data Type	types is used for the Name fi Tick (✓)	eld? Tick (/) the correct box	x. [1]
	Data Type	Tick (✓)		[+]
	NUMBER	1		
	CURRENCY	2		
	TEXT	3		



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	Advantage 2		
(g)	The school wants to f trip. Complete the table database.	ind the students who are beg le below to show how they ca	ginners and who have paid fo n obtain this information fror
	Field Name	Operator	Search Criteria
		=	
		AND	
	Field Name	Operator	Search Criteria
		=	
(h)	The database contains that could have preven		ribe a suitable validation tech
	Error		



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	3		4	
	5		6	
	7		8	
ı f	featur	es of ema	ail.	1
				[1]

5.	Email is	widely	used	by	many	people.

Tick (/) the correct boxes to show whether the following statements about email are True or False. [4] (a)

Statements	True	False
You can attach files to an email.	1	2
You can send an email to many people at the same time.	3	4
You must be at home to receive an email.	5	6
You need an email address to receive email.	7	8
(b) Carbon Copy (CC) and Blind Carbon Copy (BCC) a	re both features of	email.
(i) State what is meant by Carbon Copy (CC).		[]

	(BCC).		e between			[1]
• • • • • • • • • •		 		 	 	
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	Advantage	Disadvantago
Allows disabled people to shop from home.	1	2
Wider choice of goods available.	3	4
You cannot check the quality of goods before purchasing.	5	6
aves the cost of travelling to the shop.	7	8
Credit card information may be misused.	9	10
Advantage to company		
Disadvantage to company		
(c) Give one method of finding products on a website.		[1]



Biometrics can be use of this method.			[3]



8. A school uses a spreadsheet to keep track of payments for a trip. This is shown below.

	A	В	C	D	E	F	G	Н	I	J	K
1	Total Cost of Trip	£780									
2	Student Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Amount Paid	Amount to Pay	Status
3	J Jones	£250	£50	£50	£50	£50	£50	£50	£550	£230	Not Fully Paid
4	C White	£250	£60	£60	£60	£100	£150	£100	£780	£0	Trip Paid
5	H Vasoya	£250	£50	£50	£50	£50	£30	£300	£780	£0	Trip Paid
6	S Evans	£250	£100	£75	£75	£75	£75	£50	£700	£80	Not Fully Paid
7	S Peters	£250	£50	£50	£50	£50	£150	£100	£700	£80	Not Fully Paid
8	L Lamb	£250	£200	£50	£50	£50	£40	£10	£650	£130	Not Fully Paid

(a)	Give the <i>data</i> in cell C4 .	[1]
(b)	State how the number in cell B3 has been formatted.	[1]
(c)	Which of the following formulas could be used to give the Amount Paid in cel	II I3 ? [1]
	A =SUM(B3:H3) B =B2+C2+D2+E2+F2+G2+H2 C =SUM(B2:F2) D =B3+C3+D3+E3+F3+G3+H3+I3	
(d)	The cell K3 contains the formula =IF(J3=0, "Trip Paid", "Not Fully Paid").	
	Which one of the following formulas would you expect to be used in cell K4 ?	[1]
	A =IF(J1=0, "Trip Paid", "Not Fully Paid") B =IF(J4=0, "Trip Paid", "Not Fully Paid") C =IF(J3=0, "Trip Paid", "Not Fully Paid") D =IF(J2=0, "Trip Paid", "Not Fully Paid")	

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(e)	The formula used to calculate the Amount to Pay in cell J3 is =\$B\$1–I3. State the cell referencing used in this formula.	type of
(f)	Give two advantages of using a spreadsheet to keep track of payments.	[2]
	Advantage 1	
	Advantage 2	
	Advantage 2	



,	Control systems are used in schools.
	Describe how three different sensors are used in schools. In your answer refer to what each measures. Use <i>distinctly</i> different examples in each case. Do not describe heat sensors in your answer. [3×2]
	Sensor 1
	What is measured
	Description of use in school
	Sensor 2
	What is measured
	Description of use in school
	Sensor 3
	What is measured
	Description of use in school



(a)	Give	two interactive services available through digital TV. [2]
(b)	(i)	Give two different uses of social networking for home entertainment. Do not give updating your status for your answer. [2]
	(ii)	Give one reason why you should not give away personal details on a social networking account. [1]
(c)	(i)	Explain what is meant by the term webcam. [1]
	(ii) Adva	Give one advantage and one disadvantage of using a webcam. [2]
	Disa	dvantage
(d)		re are several health hazards associated with the use of a computer for long periods me. Describe two different health hazards. Give a method of preventing each health and. [4]



Onlin	ne Tutorials and Online Assessment are ways in which ICT is used in education.
(i)	Name four specific but <i>different</i> features (characteristics) of Online Tutorials and Assessment. Describe how these four features are used in education. [4]
Reme	ember that the quality of written communication will be assessed in this question.
•••••	
(ii)	Discuss the general advantages and disadvantages of Online Tutorials and Assessment
Reme	ember that the quality of written communication will be assessed in this question.
•••••	
•••••	
•••••	



	Examiner only
END OF PAPER	



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