Surname		Centre Number	Candidate Number
Other Names			0

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GCSE

4331/01

INFORMATION AND COMMUNICATION TECHNOLOGY

UNIT 1: Understanding ICT
(Short Course) INFORMATION AND
COMMUNICATION TECHNOLOGY
UNIT 1: Understanding ICT

A.M. WEDNESDAY, 18 May 2016

1 hour 30 minutes

For Examiner's use only		
	Maximum Mark	Mark Awarded
Total	**80**	

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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 **10**.

SJJ*(S16-4331-01)

*Answer **all** questions.*

1. A school is organising a Summer Fayre to raise funds.

(a) State which software type would be the most suitable for completing the following tasks.
[3]

Task	Software Type
Creating a slide show to inform students of the Fayre in an assembly	
Creating a letter to send to parents informing them of the Fayre	
Automatically recording the number of people entering the Fayre	

(b) The first draft of a poster has been created and is shown below.

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(i) **Tick** (✓) the correct boxes below to show **three** features of Desk Top Publishing (DTP) software used on the poster. [3]

Feature	Tick (✓)
Bullet points	1
Table	2
Gradient background	3
AutoShape	4
Underline	5
Centre Text	6
Clip Art	7

(ii) DTP software could also be used to create other types of documents to help with the Fayre.

Name **two** types of document, other than letters and posters, and give a different use for each in organising the Fayre. [2x2]

Type of Document 1

....

Use ....

....

....

Type of Document 2

....

Use ....

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2. *(a)* Many schools use email. Explain what is meant by an email. [2]

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(b) **Tick** (✓) the correct boxes below to show whether the following statements about email are **True** or **False**. [5]

Statement	True	False
You can create folders to store and organise your emails.		
Using the cc feature will hide all other recipients from each other.		
You can add attachments of any file size to an email.		
You can add signatures to your emails to give personal contact details.		
You can only send emails from a laptop computer.		

(c) Phishing and viruses are disadvantages of using email. State **two** *other* disadvantages of email and describe a different prevention for each. [4]

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3. **Tick** (✓) the correct box below to show whether each of the following is *data*, *information* or *knowledge*. [4]

	Data	Information	Knowledge
The school quiz team with 45 points had the highest points of the day and were the winners	1	2	3
45, 44, 27, 17, 7	4	5	6
45 points, 44 points, 27 points, 17 points, 7 points	7	8	9
Quiz Team A consisted of Katie, Jodie, Ryan, Jamie and Tomas	10	11	12

4. Many people use Geographical Information Systems (GIS) for navigation. Give **three** advantages and **one** disadvantage of the use of GIS for navigation. [4]

Advantage 1 ....

....

Advantage 2 ....

....

Advantage 3 ....

....

Disadvantage ....

....

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5. A school has created a database to organise the stalls at the Summer Fayre. Part of the database is shown below.

Stall ID	Stall Type	Stallholder Name	Year	Popular Last Year	Teacher Supervision	Stall Size	Date Booked
3	Pin the Tail	S Webb	9	N	Y	Large	07/03/2016
12	Cakes	H Smith	9	Y	N	Small	28/03/2016
7	Bric-a-brac	D Jones	10	Y	N	Medium	28/03/2016
11	Badges	W Davies	10	Y	N	Small	09/05/2016
5	Tombola	N Khan	10	N	N	Medium	37/05/2016
6	Refreshments	P Taylor	11	Y	N	Medium	09/05/2016
2	Photo booth	A Rose	11	Y	Y	Large	23/05/2016
9	Book stall	J Miller	12	Y	N	Small	08/02/2016

(a) State how many records are shown in the above database. [1]

(b) State how many fields with a *Boolean* data type are shown in the database. [1]

(c) Identify the key field and give the purpose of the key field. [2]

....

....

(d) The caretaker needs to find out how many medium or large stalls are required. Complete the tables below to show how the caretaker can obtain this information from the database. [2]

Field Name	Operator	Search Criteria
	=	

OR

Field Name	Operator	Search Criteria
	=	

(e)   Name the field that has been sorted into ascending order.   [1]

....

(f)   The database contains an error. **State** the error and **describe** a suitable validation technique that could have prevented the error.   [3]

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6. A spreadsheet has been created to organise the cost of the Summer Fayre, as shown below.

	A	B	C	D	E	F
1	SUMMER FAYRE 2016					
2	OUTGOINGS					Estimated Number Attending
3	Item	Number Required	Cost per item	Total		400
4	Marquee	2	£350.00	£700.00		
5	Stall tables	45	£3.00	£135.00		Total Outgoings
6			Total	£835.00		£2,035.00
7						
8	Entertainment	Number of Hours	Cost per Hour	Total		Ticket Price
9	School dance group	3	£0.00	£0.00		£5.09
10	Local band	2	£25.00	£50.00		
11			Total	£50.00		
12						
13	Refreshments	Total	Unit Price	Total		
14	Hot dogs	400	£1.50	£600.00		
15	Fruit salad	300	£1.00	£300.00		
16	Bottles of water	500	£0.50	£250.00		
17			Total	£1,150.00		

(a) State the number format used in cell **D6**. [1]

....

(b) Name the spreadsheet formatting feature that has combined cells **A1 – F1**. [1]

....

(c) Which of the following formulas could be used to give the **Total Outgoings** in **cell F6**? [1]

A =SUM(D3:D6)
B =D6+D11+D17
C =SUM(B6:D17)
D =D6+D11

(d) The school need to set the ticket price to break even. Give a suitable formula for calculating the **Ticket Price** in **cell F9**. [1]

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(e) Give **three** *advantages* of using spreadsheets to help organise the finances for an event.
[3]

Advantage 1 ....

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Advantage 2 ....

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Advantage 3 ....

....

(f) Spreadsheets can use absolute and relative cell referencing. Explain the difference between these types of cell referencing. [2]

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7. ICT has many uses in schools.

(a) **Tick (✓) one** of the methods of electronic registration listed below and give **two** different advantages and **two** different disadvantages of your chosen method. [4]

Biometric Methods ☐

Swipe Cards ☐

Advantage 1 ....

....

....

Advantage 2 ....

....

....

Disadvantage 1 ....

....

....

Disadvantage 2 ....

....

....

(b) Virtual Learning Environments (VLE) allow students to access revision material and to submit work. Give **one** *advantage* and **one** *disadvantage* of using a VLE **for students**. [2]

Advantage ....

....

Disadvantage ....

....

8. Webcams are used to access webcam services.

Explain what is meant by the term webcam and give **one** *use*, **one** *advantage* and **one** *disadvantage* of using a webcam to access webcam services. [4]

....

....

Use ....

Advantage ....

....

Disadvantage ....

....

9. Many people book their flights online.

(a) Give **two** items of data that may need to be verified by the customer when completing an online booking form and give a suitable **different** verification check for each. [2x2]

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(b) Give **four** *advantages* of booking flights online **to the customer**. [4]

Advantage 1 ....

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Advantage 2 ....

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Advantage 3 ....

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Advantage 4 ....

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(c) Give **one** *disadvantage* of online booking **to the customer**. [1]

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10. Computer gaming is a popular method of home entertainment.

- Give **three** input devices used for computer gaming.

- Name **two** health hazards associated with computer gaming, describe how they could occur and for each give a different prevention.

- Describe other advantages and disadvantages of computer gaming. [13]

Remember that the quality of written communication will be assessed in this question.

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